

For reference

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| Category | MES | Control No. | MES A 015 |
| Title | Design Standard Restricting the use of Substances of Concern for Products | Edition No. | 15 |
| | | MITSUBA Corporation | |

Contents

| | |
|--|----------|
| 1. Purpose..... | P. 2 |
| 2. Scope of application | P. 2 |
| 3. Restriction on the use of Substances of Concern for Products | P. 2 - 3 |
| 4. Compliance with laws and regulations of each country and region | P. 3 |
| EU ELV Directive 2000/53/EC, Annex II | P. 3-7 |
| 5. Manner of application | P.7 |
| 6. Note on drawing regarding Substances of Concern for Products..... | P. 7 - 8 |
| 7. Special notes | P.8 |
| 8. Mitsuba group companies..... | P.9 |

Appendix: Restricted Substances List of Mitsuba

Table 1: GADSL (Global Automotive Declarable Substance List)

Table 2: List of Voluntarily-Prohibited Substances Not Covered by GADSL

Table 3: Criteria for Packaging Substances

Table 4: Information on Relevant Laws and Regulations

1. Purpose

This standard is designed to ensure that all the supplied for the products of MITSUBA Corporation (hereinafter “Mitsuba”) and its group companies do not contain and ensure the correct use of the chemicals as restricted by our customers and/or applicable laws of related countries.

2. Scope of application

- (1) Any production materials used in the products of Mitsuba and its group companies.
(every material (parts, purchased goods, indirect materials, etc.)
- (2) **Any indirect materials that adhere or may adhere to products during the manufacturing process (metal processing oils, mold release agents, rust prevention oils, etc.)**
- (3) The materials for prototype samples.
- (4) Any product packaging materials.
- (5) For reactive compounds such as thermosetting plastics, paints and adhesives, their material component after reaction shall be subject to this standard.
- (6) This standard shall not apply to the materials supplied from Mitsuba and its group companies to suppliers.
(Mitsuba and its group companies take responsibility for such a material.)

Note) Basically, materials supplied for the products designated as service parts before July 1, 2003 are exempt from this standard. However, when it is necessary to eliminate the **substances of concern** from such products, the materials used in them shall be subject to this standard.

3. Restriction on the use of Substances of Concern for Products

Regardless of the note indicating compliance with this standard (see section 5) on the drawing, materials satisfying “Restricted Substances List of Mitsuba” (Appendix) shall be always supplied for products.

The Restricted Substances List of Mitsuba consists of Tables 1 , 2 , 3 and 4 as shown below:

| Table | Class | Description |
|---------|--|--|
| Table 1 | GADSL (Global Automotive Declarable Substance List) (including substances whose classifications are modified by Mitsuba) | List of prohibited and declarable substances created by Global Automotive Stakeholder Group (GASG) consisting of automotive manufacturers and their suppliers in Europe, the USA, and Japan. The GADSL is revised on a periodic basis. This standard shall always refer to the latest version. Both of the classifications by GADSL and Mitsuba are written in parallel. *Not all the substances belonging to each substance group are described in this List. Only those whose Mitsuba’s classifications differ from GADSL classifications are included in the List. For details, refer to GADSL website. GADSL URL: http://www.gadsl.org/ |
| Table 2 | List of Voluntarily-Prohibited Substances Not Covered by GADSL | List of substances that by request of our customers designates as “prohibited” while they are not listed in GADSL. |

| Table | Class | Description |
|---------|--|---|
| Table 3 | Criteria for Packaging Substances | List of restricted substances for packaging materials*. *Parts, items or materials that are used for packaging, protection, transportation, display, etc., and are intended to be removed, or that do not affect the use of the product even when removed. It also includes boxes, tapes, cushioning materials, labels and tags. |
| Table 4 | Information on Relevant Laws and Regulations | Legal matters requiring consideration of alternative technologies. * If any of the listed substances are contained, it must be reported in IMDS. |

4. Compliance with laws and regulations of each country and region

It is required to comply with the latest version of environmental laws and regulations regarding substances in products set by each country and region (such as ELV/RoHS Directive, REACH/BPR/CLP/TSCA/Canadian domestic Regulation, Proposition 65, **and CSCL**).

- EU ELV Directive 2000/53/EC, Annex II (Exemption) as of December 2023
ELV Directive means the regulation concerning ELVs (end-of-life vehicles) stipulated in “DIRECTIVE 2000/53/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 September 2000 on end-of life vehicles (The following Annex II included)”

| Substance | Class | Materials and components exempt from ELV Directive | Scope of the exemption |
|-----------|----------|---|---|
| Lead | 1(a) | Steel for machining purposes and batch hot dip galvanized steel components containing up to 0,35 % lead by weight | |
| | 1(b) | Continuously galvanized steel sheet containing up to 0.35% lead by weight | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 2(a) | Aluminum for machining purposes with a lead content up to 2 % by weight | As spare parts for vehicles put on the market before 1 July 2005 |
| | 2(b) | Aluminum for machining purpose with a lead content up to 1.5 % by weight | As spare parts for vehicles put on the market before 1 July 2008 |
| | 2(c)(i) | Aluminum for machining purpose with a lead content up to 0.4 % by weight | Vehicles type approved before 1 January 2028 and spare parts for these vehicles |
| | 2(c)(ii) | Aluminium alloys not included in entry 2(c)(i) with a lead content up to 0,4 % by weight | This exemption shall be reviewed in 2024 |
| | 3 | Copper alloy containing up to 4 % lead by weight | This exemption shall be reviewed in 2025 |

| Substance | Class | Materials and components exempt from ELV Directive | Scope of the exemption |
|-----------|----------|---|---|
| | 4(a) | Bearing shells and bushes | As spare parts for vehicles put on the market before 1 July 2008 |
| | 4(b) | Bearing shells and bushes in engines, transmissions and air conditioning compressors | As spare parts for vehicles put on the market before 1 July 2011 |
| | 5(a) | Lead in batteries in high-voltage systems that are used only for propulsion in M1 and N1 vehicles | Vehicles type-approved before 1 January 2019 and spare parts for these vehicles |
| | 5(b)(i) | Lead in batteries: (1) Used in 12V applications (2) Used in 24V applications in special purpose vehicles as defined in Article 3 of Regulation (EU)2018/858(1) of the European Parliament and of the Council | This exemption shall be reviewed in 2025 |
| | 5(b)(ii) | Lead in batteries used in applications not included in entry 5(a) or entry 5(b)(i) | Vehicles type approved before 1 January 2024 and spare parts for these vehicles |
| | 6. | Vibration dampers | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 7(a). | Vulcanizing agents and stabilizers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings | As spare parts for vehicles put on the market before 1 July 2005 |
| | 7(b). | Vulcanizing agents and stabilizers for elastomers in brake hoses, fuel hoses, air ventilation hoses, elastomer/metal parts in the chassis applications, and engine mountings containing up to 0.5 % lead by weight | As spare parts for vehicles put on the market before 1 July 2006 |
| | 7(c). | Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight | As spare parts for vehicles put on the market before 1 July 2009 |
| | 8(a). | Lead in solders to attach electrical and electronic components to electronic circuit boards and lead in finishes on terminations of components other than electrolyte aluminum capacitors, on component pins and on electronic circuit boards | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 8(b). | Lead in solders in electrical applications other than | Vehicles type approved |

| Substance | Class | Materials and components exempt from ELV Directive | Scope of the exemption |
|-----------|----------|---|--|
| | | soldering on electronic circuit boards or on glass | before 1 January 2011 and spare parts for these vehicles |
| | 8(c). | Lead in finishes on terminals of electrolyte aluminum capacitors | Vehicles type approved before 1 January 2013 and spare parts for these vehicles |
| | 8(d). | Lead used in soldering on glass in mass airflow sensors | Vehicles type approved before 1 January 2015 and spare parts of such vehicles |
| | 8(e). | Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) | This exemption shall be reviewed in 2024 |
| | 8(f)(a). | Lead in compliant pin connector systems | Vehicles type approved before 1 January 2017 and spare parts for these vehicles |
| | 8(f)(b). | Lead in compliant pin connector systems other than the mating area of vehicle harness connectors | Vehicles type-approved before 1 January 2024 and spare parts for these vehicles |
| | 8(g)(i) | Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages | Vehicles type approved before 1 October 2022 and spare parts for these vehicles |
| | 8(g)(ii) | Lead in solders to complete a viable electrical connection between the semiconductor die and the carrier within integrated circuit flip chip packages where that electrical connection consists of any of the following: (i)a semiconductor technology node of 90 nm or larger; (ii)a single die of 300 mm ² or larger in any semiconductor technology node; (iii)stacked die packages with dies of 300 mm ² or larger, or silicon interposers of 300 mm ² or larger. | Valid for vehicles type-approved from 1 October 2022 and spare parts for these vehicles (This exemption shall be reviewed in 2024.) |
| | 8(h). | Lead in solder to attach heat spreaders to the heat sink in power semiconductor assemblies with a chip size of at least 1 cm ² of projection area and a nominal current density of at least 1 A/mm ² of silicon chip area | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 8(i) | Lead in solders in electrical glazing applications on glass except for soldering in laminated glazing | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 8(j). | Lead in solders for soldering in laminated glazing | Vehicles type approved before 1 January 2020 and spare parts for these vehicles |

| Substance | Class | Materials and components exempt from ELV Directive | Scope of the exemption |
|---------------------|--------|---|---|
| | 8(k) | Soldering of heating applications with 0,5 A or more of heat current per related solder joint to single panes of laminated glazings not exceeding wall thickness of 2,1 mm. This exemption does not cover soldering to contacts embedded in the intermediate polymer | Vehicles type approved before 1 January 2024 and spare parts for these vehicles |
| | 9 | Valve seats | As spare parts for engine types developed before 1 July 2003 |
| | 10(a). | Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: -glass in bulbs and glaze of spark plugs, -dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d). | |
| | 10(b). | Lead in PZT based dielectric ceramic materials of capacitors being part of integrated circuits or discrete semiconductors | |
| | 10(c). | Lead in dielectric ceramic materials of capacitors with a rated voltage of less than 125 V AC or 250 V DC | Vehicles type approved before 1 January 2016 and spare parts for these vehicles |
| | 10(d). | Lead in the dielectric ceramic materials of capacitors compensating the temperature-related deviations of sensors in ultrasonic sonar systems | Vehicles type approved before 1 January 2017 and spare parts for these vehicles |
| | 11 | Priming | Vehicles type approved before 1 July 2006 and spare parts for these vehicles |
| | 12 | Lead-containing thermoelectric materials in automotive electrical applications to reduce CO ₂ emissions by recuperation of exhaust heat | Vehicles type approved before 1 January 2019 and spare parts for these vehicles |
| Hexavalent chromium | 13(a). | Corrosion preventive coatings | As spare parts for vehicles put on the market before 1 July 2007 |
| | 13(b). | Corrosion preventive coatings related to bolt and nut assemblies for chassis applications | As spare parts for vehicles put on the market before 1 July 2008 |
| | 14 | Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution: | |

| Substance | Class | Materials and components exempt from ELV Directive | Scope of the exemption |
|-----------|--------|---|---|
| | | (i)designed to operate fully or partly with electrical heater, having an average utilized electrical power input < 75W at constant running conditions; | Vehicles type approved before 1 January 2020 and spare parts for these vehicles |
| | | (ii)designed to operate fully or partly with electrical heater, having an average utilized electrical power input ≥ 75W at constant running conditions; | Vehicles type approved before 1 January 2026 and spare parts for these vehicles |
| | | (iii)designed to fully operate with non-electrical heater. | |
| Mercury | 15(a). | Discharge lamps for headlight application | Vehicles type approved before 1 July 2012 and spare parts for these vehicles |
| | 15(b). | Fluorescent tubes used in instrument panel displays | Vehicles type approved before 1 July 2012 and spare parts for these vehicles |
| Cadmium | 16 | Batteries for electrical vehicles | As spare parts for vehicles put on the market before 31 December 2008 |

- Material/part whose scope of the exemption is not specified is indefinitely exempt from this standard.

However, in conformity with the domestic laws of the European countries where more stringent restrictions are imposed (e.g. Denmark, Sweden, etc.), the following thresholds shall apply to the two-wheeled and general use products not only for such countries, but also for other European countries.

| Substance | Threshold | Description |
|------------------------------|--|---|
| Lead compound | 100ppm | Danish law, restriction by JAMA (for motorcycles) |
| Mercury and mercury compound | 100ppm <u>(However, 0 ppm for intentional use)</u> | Danish law, Swedish law, etc. |

5. Manner of application

The handling (submission, use, etc.) of the certificate of non-inclusion of SOC and the chemical substance data shall conform to separately prepared “Mitsuba Corporation Supplier Quality Manual” or “Mitsuba Group Green **Purchasing** Guideline”.

- The certificate of non-inclusion of SOC refers to the analysis data evidencing that the content of each SOC including the four substances specified by the ELV Directive (Pb, Cd, Hg, Cr6+) is limited to below the threshold.
- The chemical substance data refers to the **data on chemical substances contained in materials and parts traded with Mitsuba Group companies.**

6. Note on drawing regarding Substances of Concern for Products

The drawings of new or design changed products shall include the following sentence if the restriction on

substances of concern for products is necessary for fulfilling customer and/or applicable law requirements:

Note) Even if it refers to the material supplied from our customer or exempt from regulations, the drawing shall include this note.

<Note to be included in drawings>

“The material(s) of this part shall conform to MES A 015 “Restricting the Use of Substances of Concern for Products”.

<Application timing>

The above sentence shall be included on the drawings to be created on and after April 15, 2024.

7. Special notes

- For the already-issued drawings including the note regarding MES A 010 “Restricting on the use of specific substances”, QK06015 "Standards on Restrictions on the Use of Specified Substances" and MES A 015 “Restricting the Use of Hazardous Substances”, shall be interpreted as MES A 015 “Restricting the Use of Substances of Concern for Products” until the next update.
- When it is revealed that the received parts/materials contain prohibited substance(s), Legal & CSR Section, General Affairs Dept. shall be immediately informed of that. Note, however, that Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned (Mitsuba’s classification “P#” in the Appendix shows such substances)

Note) Report on prohibited substance(s) from a supplier shall be sent to the Legal & CSR Section, General Affairs Dept. via Purchasing Section in charge.

- Although this standard covers a number of requirements from car manufacturers, it cannot cover every customer requirement even by adding the note indicating the compliance with this standard on the drawings as mentioned above. In the case of specifying an optional customer requirement on a drawing beyond this standard, it is required to directly add a note on such a customer’s request into the drawing.
- Any questions concerning this standard should be addressed to the administrative division above.

8. MITSUBA Group companies

MITSUBA group companies refer to the following companies.

| | | |
|--|------------|---|
| Japan (<u>6</u> companies) | | MITSUBA Corporation Tatsumi Corp. Higashinihon Diecasting Industry Co., Ltd. Momimo Manufacturing Co., Ltd. Toyo Electric Manufacturing Co., Ltd. Sun-You Corp. |
| America (5 companies) | U.S.A | American Mitsuba Corp. |
| | Mexico | Corporacion Mitsuba de Mexico, S. A. DE C. V. Corporacion Tatsumi de Mexico, S. A. DE C. V. |
| | Brazil | Mitsuba do Brasil Ltda. Mitsuba Autoparts do Brasil Indústria Ltda. |
| Europe / Africa (<u>6</u> companies) | Italy | Mitsuba Italia S.p.A. |
| | Hungary | Mitsuba Automotive Systems of Europe Kft. |
| | France | Mitsuba Manufacturing France S.A. |
| | Morocco | Mitsuba Manufacturing Morocco |
| | Russia | Mitsuba Rus LLC |
| | Turkey | Mitsuba Turkey Otomotiv A.S. |
| Asia (<u>7</u> companies) | Philippine | Mitsuba Philippines Corp. |
| | India | Mitsuba India Pvt. Ltd. |
| | Vietnam | Mitsuba Vietnam Co., Ltd. |
| | Indonesia | P.T. Mitsuba Indonesia PT. Mitsuba Automotive Parts Indonesia P.T. Tatsumi Indonesia |
| | Thailand | Thai Summit Mitsuba Electric Manufacturing Co., Ltd. |
| China (<u>7</u> companies) | China | Guangzhou Mitsuba Electric Co., Ltd. Guangzhou Mitsuba Electric (Wuhan) Co., Ltd. Mitsuba Electric (Dalian) Co., Ltd. Mitsuba Shihlin Electric (Wuhan) Co., Ltd. Changzhou Mitsuba Automotive Technology (Shanghai) Co., Ltd. Mitsuba China(Hong Kong)Ltd. Changzhou Shihlin Mitsuba Electric & Engineering Co., Ltd. |

| History of original, revision, and repeal | | | |
|---|--------------------------|------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| 00 | Jan. 14, 2008 | Jan. 21, 2008 | Original (prepared by BS1) |
| 01 | Feb. 1, 2012 | Apr. 1, 2012 | <ul style="list-style-type: none"> - Clarification of the scope of application including all the group companies (globalization) - Review of restricted substances along with the revision of the applicable regulations and customers' requirements and integration of "List of specific prohibited substances" and "List of voluntarily prohibited or declarable substances" - Addition of restrictions on two-wheeled and general use products for Europe - Replacement of the GADSL and the list of exempt materials / components (Annex II of the ELV Directive) with their latest versions (Revised by DM1 Sato) |
| 02 | Apr. 1, 2013 | May. 1, 2013 | <ul style="list-style-type: none"> - Replacement of the GADSL and the list of exempt materials / components (Annex II of the ELV Directive) with their latest versions - Revision on Mitsuba group companies - Addition of restrictions on Bis (2-methoxyethyl) phthalate and Tris (2-chloroethyl) phosphate to Table 2. - Addition of Table 3 "List of substances recommended to be reduced" (Revised by DM1 Sato) |
| 03 | May. 23, 2014 | Jun. 1, 2014 | <ul style="list-style-type: none"> - Replacement of the GADSL with their latest versions - Revision on Mitsuba group companies - Addition of restrictions on BNST and PFOA, change the restriction on Phthalates from 'Prohibited to use for new material' to 'Prohibited to use for parts newly set after Feb. 2015', deletion of restriction on Triethanolamine on Table 2. - Deletion of PFOA on Table 3. (Revised by BP4 Sato) |
| 04 | June.3, 2015 | June.8, 2015 | <ul style="list-style-type: none"> - Replacement of the GADSL with their latest versions - Addition of Tributyltetradecylphosphonium chloride , Arsenic selenide (As₂Se₃), 2,2',4,4',5,5'-Hexabromodiphenyl Ether, Chloromethyl methyl ether (CMME), 2,2',4,4'-Tetrabromodiphenyl ether, Benzene, 1,1'-oxybis[tribromo- . A threshold of a lead compound and a threshold of mercury and the compound are added |

| History of original, revision, and repeal | | | |
|---|--------------------------|------------------|---|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <p>about motorcycles product and general-purpose product again.</p> <p>- Reflection of SVHC to Table 3.</p> |
| 05 | July.29, 2016 | August.11, 2016 | <p>- Replacement of the GADSL with their latest versions</p> <p>Addition of</p> <ul style="list-style-type: none"> •Azodyes that can form carcinogenic amines, selected •Diarsenic pentaoxide; Arsenic pentoxide; Arsenic oxide •Sodium dichromate dehydrate •Cadmium and its compounds, all members •Alkanes, C10-21, chloro- •Alkane, C10-14-, Chloro- •Alkane, C12-14-, Chloro- •Alkene, C12-24-, Chloro- •Chromium(VI)-salts, all members •Chromium cobalt copper iron manganese oxide •Chromium cobalt iron manganese oxide •Chromium cobalt oxide •Chromium cobalt oxide (Cr₂CoO₄) •Cobalt chromate (Chromic acid (H₂CrO₄), cobalt(2+) salt (1:1)) •Cobalt chromium alloy •Lead and its compounds, all members •Chromic acid (H₂Cr₂O₇), nickel(2+) salt (1:1) •Chromium nickel oxide (Cr₂NiO₄) •Nickel chromate •Nickel, [6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11, 20-tetrahydrodibenzo[c,j]dipyrazolo[3,4-f:3',4'-m][1,2,5,8,9,12]hexaazacyclotetradecinato(2-)-N₅,N₁₀,N₁₅,N₂₀]- •Residues, copper-iron-lead-nickel matte, sulfuric acid-insol. •Silicic acid, lead nickel salt •Cadmium dinitrite •Nitrous acid, lead(2+) salt •N-Nitrosamines, selected •Polybrominated Terphenyls (PBT), all members •Methane, tetrafluoro- •PFOA(CAS No.) <p>Change of BNST(Source)</p> <p>- to Table 2.</p> <p>A threshold of a lead compound and a threshold of mercury and the</p> |

| History of original, revision, and repeal | | | |
|---|--------------------------|-------------------|---|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <p>compound are added about motorcycles product and general-purpose product again.</p> <ul style="list-style-type: none"> - Reflection of SVHC to Table 3. |
| 06 | November.11, 2016 | Desember.1, 2016 | <ul style="list-style-type: none"> - The Japanese name making revision of "Polybrominated Terphenyls" written on table2 of an appendix - The re-run which is "lead compound" and "mercury and the compound" to table2 of an appendix - 4 substances of phthalic acid system plasticizer (DEHP,DBP,BBP,DIBP) is prohibited completely in a table 2 in Appendix. - European End-of Life Vehicles Directive(2000/53/EC) accessory document: The latest revise of ANNEX II (exemption regulation) 2016/774 is reflected. |
| 07 | August.30, 2017 | September.1, 2017 | <ul style="list-style-type: none"> - Exemption coverage review of accessory documentary ANNEX II (exemption regulation) of European End-of Life Vehicles Directive (2000/53/EC) (2c,3,5) - Addition of a Mitsuba group company (Turkey) - Manufacturer name modification in the Mitsuba group company (Vietnam) - Prohibited to wrapping material and packaging material. (Lead,Chromium(VI),Mercury,Cadmium) - Table 1(GADSL matter group list) Reflection of GADSL 2017 Ver1.0 (Additional chemicals group reflection and enclosure) - Table 2(Mitsuba List of voluntarily prohibited substances) Addition of No.50-66 Deleted of <ul style="list-style-type: none"> •cadmium dinitrite •Nitrous acid, lead(2+) salt •Polybrominated Terphenyls (PBT), all members •Aniline •BNST •Lead and its compounds (Four-wheel products only, according to GADSL.)* •Mercury and its compounds (Four-wheel products only, according to GADSL.)* <p>*For two-wheeled and general use products, it is prohibited.</p> |

| History of original, revision, and repeal | | | |
|---|--------------------------|--------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <ul style="list-style-type: none"> • Hexachlorobenzene • Hexachlorocyclohexane, gamma isomer, Lindane • Acrylamide - Table 3 (reduction recommendation material list) <p>Addition of No.169-176</p> <ul style="list-style-type: none"> • 16th of SVHC • 17th of SVHC • 4-heptylphenol, branched and linear • Hydrazine monohydrate • Silicic acid (H₂Si₂O₅), barium salt (1:1), lead-doped • Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) - Deleted of • 1,2-Benzenedicarboxylic acid; di-C6-8-branched alkylesters, C7-rich • Bis(2-methoxyethyl)phthalate <p>*These were added to Table 2.</p> |
| 08 | August 20, 2018 | September 14, 2018 | <ul style="list-style-type: none"> - Exemption scope of accessory documentary ANNEX II (exemption regulation) of European End-of Life Vehicles Directive (2000/53/EC) is reconsidered. <p>The form of Appendix is changed.</p> <p>Table 1: GADSL</p> <p>Table 2: List of Voluntarily-Prohibited Substances Not Covered by GADSL</p> <p>Table 3: REACH Substances List</p> <ul style="list-style-type: none"> - GADSL 2018 ver1.0 revised contents are reflected. - P# (Mitsuba's original classification) is set in Mitsuba's classification. <p>[Definition]</p> <p>P#: Substances classified as P# are prohibited in principle (and it is not allowed to newly use them).</p> <p>(However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.)</p> |
| 09 | December 9, 2019 | December 23, 2019 | <ul style="list-style-type: none"> - Article 2: Scope of application <p>Addition of "any product packaging materials"</p> <ul style="list-style-type: none"> - Article 4: Compliance with laws and regulations of each country and region |



| History of original, revision, and repeal | | | |
|---|--------------------------|------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <p>Addition of the following sentence: “It is required to comply with the latest version of environmental laws and regulations regarding substances in products set by each country and region (such as ELV/RoHS Directive, REACH/BPR/CLP Regulation, and Proposition 65).”</p> <ul style="list-style-type: none"> • Change of name of a department which controls environmental data • Revision of the list of Mitsuba group companies • Appendix: Table 1 (GADSL) • Addition of the start date of prohibition of phthalates (DEHP, DBP, DIBP, and BBP) set by Mitsuba <ul style="list-style-type: none"> - For motorcycles and general purpose products : No use for parts after 2020/7/7 - For four-wheel vehicles : No use for parts after 2022/7/7 - Reflection of GADSL 2019 Ver. 1.1 (additional substance groups) - Change in the Mitsuba's Classification of the following substance to P <ul style="list-style-type: none"> No2, 12-1, 47-54, 49, 58-13, 58-15, 58-16, 74, 75, 76-1, 83-1, 83-2, 94, 99, 121-1, 137, 137-1, 137-2, 137-3, 140, 150, 150-1, 150-2, 150-3, 160, 167, 167-1, 167-2, 168, 180-10, 180-11, 180-12, 180-13, 180-14, 180-15, 180-16, 180-17, 180-20, 180-21, 180-22, 183, 192, 223, 235, and 247 - Change in the Mitsuba's Classification of the following substance to P# <ul style="list-style-type: none"> No16-1 and 16-2 - Change in the Mitsuba's Classification of the following substance to D/P <ul style="list-style-type: none"> No8, 12, 22, 38, 41, 41-11~57, 60, 71, 88, 110, 111, 152, 180-18, 180-19, 191, 194, 207-1 and 236 - Change in the Threshold and Source (Legal requirements, regulations), specified condition - Added a description of " Mitsuba's classification stricter than GADSL is shown in red". - Appendix: Table 2 (GADSL listing outside independent prohibited substance list) - Addition of [No. 447 to 553] |

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|---|--------------------------|------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| 10 | December 25, 2020 | January 15, 2021 | <ul style="list-style-type: none"> - Article 1. "Control of use" is added in the purpose. - Revision of EU ELV Directive 2000/53/EC, Annex II (Exemption) (8(e),8(g) (i) (ii), 8(k),14) - JAMA/JAPIA Standard Material Datasheet is changed to JAPIA Standard Material Datasheet. - Change of name of a department which controls environmental data - Revision of the list of Mitsuba group companies and company name. - Appendix: Table 1 (GADSL) <ul style="list-style-type: none"> • Reflection of GADSL 2020 Ver. 1.0 (additional substance groups) • Change in the Mitsuba's Classification of the following substance to P № 16-3, 23, 49-58~60, 52, 76, 96, 116, 152-1.4, 164 and 193-1~12 • Change in the Mitsuba's Classification of the following substance to P# № 13-1, 20-1, 20-2, 46, 49-9, 55-1, 59-1, 78, 93-2, 99, 116-1~10, 142, 143, 156, 170-1, 188-1 and 247 • Change in the Mitsuba's Classification of the following substance to D/P № 7, 16, 49-55~57.61, 51, 61-3.12.13, 124, 135-2.6.8, 139, 152-2.3.7.8, 230 and 239 • Change in the Threshold and Source (Legal requirements, regulations), specified condition • Appendix: Table 2 (GADSL listing outside independent prohibited substance list) Addition of [No. 536 to 548] |
| 11 | December 24, 2021 | January 22, 2022 | <ul style="list-style-type: none"> - Change of name of a department which controls environmental data - Revision of the list of Mitsuba group companies and company name. - Appendix: Table 1 (GADSL) <ul style="list-style-type: none"> • Reflection of GADSL 2021 Ver. 1.0 (additional substance groups) • Change in the Mitsuba's Classification of the following substance to P № 56-1~3, 56-6, 56-8~9, 56-15~25, 156 and 225 • Change in the Mitsuba's Classification of the following substance to D/P № 16-4~5, 45, 56-4, 56-7, 56-12~13 and 116 • Change in the Mitsuba's Classification of the following substance to D №63,92 and 141 |

| History of original, revision, and repeal | | | |
|---|--------------------------|-------------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <ul style="list-style-type: none"> • Change in the Threshold and Source (Legal requirements, regulations), specified condition - Appendix: Table 2 (GADSL listing outside independent prohibited substance list) Addition of [No. 547 to 690] - Added about QK06015 (standard for restriction of use of specific substances) |
| 12 | December 28, 2022 | January 31, 2023 | <ul style="list-style-type: none"> - Deletion of Mitsuba Group companies - In accordance with the revision of GADSL and various related laws and regulations, and the revision of each customer's management standards, the contents of Attached Table 1 (GADSL list) and Attached Table 2 (GADSL listing outside independent prohibited substance list) have been revised. Changes are in bold. display - Remove Table 3 (REACH Substance List) - Attachment Table 3 (Criteria for Packaging Substances) and Attachment Table 4 (Information on Relevant Laws and Regulations) added |
| 13 | December 28, 2023 | January 31, 2024 | <ul style="list-style-type: none"> - Clerical corrections. - Reflecting the GADSL 2023 Ver.1.0 in Attachment Table 1. - Due to revisions to chemical substance-related laws and regulations and customer standards revisions, Attachment Table 1 (GADSL substance group list), Attachment Table 2 (Mitsuba voluntary prohibited substance list), Attachment Table 3 (Packaging material management standards) and Attachment Table 4 (Revised the content of related legal information ("Decisions, Regulations and Trends"). Change points are underlined and bold. - Added the following as new prohibited substances. - Dechlorane Plus (GADSL #93), UV-328 (GADSL #44) |
| 14 | March 29, 2024 | April 15, 2024 | <ul style="list-style-type: none"> - Changed the standard name from "Restriction on the use of environmentally hazardous substances" to "Restricting the use of Substances of Concern for Products". - The above changes have been applied to the main text and appendices. - Changed "6.Note on drawing regarding SOC " - Correction of clerical errors. |
| <u>15</u> | <u>December 27, 2024</u> | <u>January 31, 2025</u> | <ul style="list-style-type: none"> - <u>Modification of (2) in 2. Scope of application</u> - <u>Added the Chemical Substances Control Law (CSCL) to the environmental laws and regulations in 4. Compliance with laws and</u> |

| History of original, revision, and repeal | | | |
|---|--------------------------|------------------|--|
| Edition No. | Original or revised date | Enforcement date | Contents |
| | | | <p><u>regulations of each country and region</u></p> <ul style="list-style-type: none"> - <u>Modified the threshold for "mercury and mercury compounds" according to the Minamata Convention in 4. Compliance with laws and regulations of each country and region.</u> - <u>Changed the name of the internal standard that applies to internal operations to "Mitsuba Group Green Purchasing Guideline" in 5. Manner of application.</u> - <u>Incorporated the revisions of GADSL 2024 Ver.2.0 into Table 1 of the Appendix.</u> - <u>Revised Tables 1 (GADSL list), 2 (List of Voluntarily-Prohibited Substances Not Covered by GADSL), 3 (Criteria for Packaging Substances), and 4 (Information on Relevant Laws and Regulations) of the Appendix due to amendments to related laws and regulations on chemical substances and revisions to related customer standards.</u> - <u>Correction of clerical errors (4. Compliance with laws and regulations of each country and region, 8. MITSUBA Group companies)</u> |

| | |
|---------------------|---|
| Super ordinate rule | <u>Rules for Operating MES Standards in MITSUBA Group</u> |
| Subordinate rule | — |

| | | | |
|----------------------|---|--|--|
| Enactment department | Business Management Dept. | Control department | Business Management Dept. |
| Decision maker | Business Management Dept. General Manager Hiroshi Naito  | Person in charge of control department | Development Management Sec. Manager Tetsuya Obara  |

Appendix: Restricted Substances List of Mitsuba

The Restricted Substances List of Mitsuba consists of Tables 1, 2, 3 and 4 as shown below:

| Table | Class | Description |
|---------|--|--|
| Table 1 | GADSL (Global Automotive Declarable Substance List) (including substances whose classifications are modified by Mitsuba) | <p>List of prohibited and declarable substances created by Global Automotive Stakeholder Group (GASG) consisting of automotive manufacturers and their suppliers in Europe, the USA, and Japan.</p> <p>The GADSL is revised on a periodic basis. This standard shall always refer to the latest version.</p> <p>Both of the classifications by GADSL and Mitsuba are written in parallel. *Not all the substances belonging to each substance group are described in this List. Only those whose Mitsuba's classifications differ from GADSL classifications are included in the List.</p> <p>For details, refer to GADSL website. http://www.gadsl.org/</p> |
| Table 2 | List of voluntarily prohibited substances Not Covered by GADSL | List of substances that by request of our customers designates as "prohibited" while they are not listed in GADSL. |
| Table 3 | Criteria for Packaging Substances | <p>List of restricted substances for packaging materials*.</p> <p>*Parts, items or materials that are used for packaging, protection, transportation, display, etc., and are intended to be removed, or that do not affect the use of the product even when removed. It also includes boxes, tapes, cushioning materials, labels and tags.</p> |
| Table 4 | Information on Relevant Laws and Regulations | <p>Legal matters requiring consideration of alternative technologies</p> <p>*If a product contains any of these substances, it must be reported in IMDS.</p> |

For the purpose of this list, the following terms and definitions shall apply:

- Substance: Name of chemical or chemical group
- CAS No.: A number allocated to each chemical by CAS (Chemical Abstracts Service), a division of the American Chemical Society (international standard chemical code)
- Threshold: Reference level of the chemical content per homogeneous material. If a chemical substance is contained in excess of this level, such a substance must be declared or prohibited from being used.
- P: Prohibited substance, D: Declarable substance
- D/P: Use another restriction (prohibit or declare substance)
- P#: Prohibited substance. However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned
- Threshold : When there is no mentioning of a threshold, it's made 0.1%.

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|--|-------------|-----------------------|------------------------------------|--|--|
| 1 | Acetaldehyde | アセトアルデヒド | 75-07-0 | D | D | | Reg. (EC) No 1272/2008 |
| 2 | Acetamide, N-methyl- | N-メチルアセトアミド | 79-16-3 | D | D | | Reg. (EC) No 1272/2008, Classified as toxic to reproduction class 2 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 3 | Acetonitrile | アセトニトリル | 75-05-8 | D | D | | Reg. (EC) No 1272/2008 |
| 4 | Acrylamide | アクリルアミド | 79-06-1 | D | D | | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 5 | Acrylonitrile | アクリロニトリル | 107-13-1 | D | D | | Reg. (EC) No 1272/2008 |
| 6 | Alkyl (C7-C9), 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates, mixture of branched and linear | C7-C9-アルキル-3-[3-(2H-ベンゾトリアゾール-2-イル)-5-(1,1-ジメチルエチル)-4-ヒドロキシフェニル]プロピオンエーテル | 127519-17-9 | D | D | | Included in list of substances under REACH PACT assessment |
| 7 | Alkyl Phenol derivatives, selected | アルキルフェノール誘導体 | | D/P | D/P | | Toxic to Reproduction 1B(CLP). (EU) 2017/1510 REACH Annex XVII, Entries 30 |
| 8 | Amines, coco alkyl | ビス(ヒドロキシエチル)アルキルアミン | 61788-46-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 9 | Amines, which can form carcinogenic Nitrosamines, selected | 発癌性ニトロソアミンを形成し得るアミン類 | | D | D | | Legally regulated according to german TRGS 615. Limit for all secondary Amines in volatile corrosion inhibitors, which can form carcinogenic Nitrosamines. Volatile corrosion inhibitors include papers, plastic films and oils. |
| 10 | 4-Aminobiphenyl and its salts, all members | 4-アミノビフェニルおよびその塩類すべて | | P | P | 0.01% | (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) |
| 11 | Ammonium Nitrate (AN) | 硝酸アンモニウム | 6484-52-2 | D | D | | The use of ammonium nitrate inflators in automotive airbags has been the reason for several recalls in the US (NHTSA Consent Order) and other markets. |
| 12 | Ammonium Perchlorate | 過塩素酸アンモニウム | 7790-98-9 | D | D | | Reg. (EC) No 1272/2008 Dir. 2007/23/EC. California Assembly Bill No. 826 - Perchlorate Contamination Prevention Act; implemented July 1, 2006. http://www.dtsc.ca.gov/HazardousWaste/Perchlorate |
| 13 | Aniline and its salts, all members | アニリンおよびその塩類すべて | | D | D/P | Calculated according to 4.3.1 of the GADSL guidance document. | Reg. (EC) No 1272/2008 |
| | 13-1 Aniline | アニリン | 62-53-3 | D | P# | | |
| | 13-2 3,5-Dichloro-4-(1,1,2,2-Tetrafluoroethoxy)Aniline | 3, 5 -ジクロロ- 4 - (1, 1, 2, 2 -テトラフルオロエトキシ) アニリン | 104147-32-2 | D | D/P | | |
| 14 | Anthracene oil | アントラセン油 | 90640-80-5 | D/P | D/P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 15 | 9,10-Anthracenedione, 1-[(5,7-dichloro-1,9-dihydro-2-methyl-9-oxopyrazolo[5,1-b]quinazolin-3-yl)azo]- (Pigment Red 251) | 3 - (1 - アントラキノニルアゾ) - 5, 7 - ジクロロ - 2 - メチル - 1 H - ピラゾロ [3, 2 - b] キナゾリン - 9 - オン | 74336-60-0 | D | D | 0.1%, Report any intentionally added content. No testing required. | Reg. (EC) No 1272/2008 |
| 16 | Antimonytrioxide (Diantimonytrioxide) | 三酸化アンチモン(三酸化二アンチモン) | 1309-64-4 | D | D | | Reg. (EC) No 1272/2008 |
| 17 | Aromatic amines, selected | 芳香族アミン、抜粋 | | D/P | D/P | | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH) Reg.(EU) No 2018/1513 (REACH) |
| | 17-1 Methanaminium, n-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-n-methyl-, chloride: C.I. Basic Violet 3 | クリスタルバイオレット | 548-62-9 | D/P | D/P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.005%) | EU No 1272/2008 (CLP): Classification: Suspected of causing cancer, Carc. 2; H351; Harmful if swallowed, Acute Tox. 4*; H302 Reg. (EC) No 1907/2006 (REACH Candidate List) Reg.(EU) No 2018/1513 (REACH) |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|-------------|-----------------------|------------------------------------|--|---|
| 17-2 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) | ベーシック ブルー 26 | 2580-56-5 | D | P | | EU No 1272/2008 (CLP): Classification: Suspected of causing cancer, Carc. 2; H351; Harmful if swallowed, Acute Tox. 4*; H302 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| | O-toluidine, 4-chloro-, hydrochloride | 2-アミノ-5-クロロトルエン塩酸塩 | 3165-93-3 | D/P | D/P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.003%) | Reg. (EC) No 1272/2008, may cause cancer (class 2), possible risks of irreversible effects (class 3), very toxic to aquatic organisms (R50) Reg. (EC) No 552/2009 Reg.(EU) No 2018/1513 (REACH) |
| 17-4 | 2,4-Diaminoanisole sulphate (1,3-Benzenediamine, 4-methoxy-, sulfate (1:1)) | 4-メトキシ-1,3-ベンゼンジアミン・硫酸塩 | 39156-41-7 | D/P | D/P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.003%) | Reg. (EC) No 1272/2008, may cause cancer (class 2), possible risks of irreversible effects (class 3), toxic to aquatic organisms (R51) Reg. (EC) No 552/2009 Reg.(EU) No 2018/1513 (REACH) |
| 17-5 | Benzenamine, 4-[(4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl]-, monohydrochloride | バラローズアニリン塩酸塩 | 569-61-9 | D/P | D/P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.005%) | Substance is listed on the RoI List for REACH Annex XIV Reg.(EU) No 2018/1513 (REACH) |
| | 3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)aniline | 3, 5-ジクロロ-4-(1, 1, 2, 2-テトラフルオロエトキシ) アニリン | 104147-32-2 | D | D/P | | |
| 18 | Arsenic and its compounds, all members | ヒ素およびその塩すべて | | D/P | P | 0.01% (unless present in metals & alloys, then the declaration limit is 0.05%). | Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) |
| 18-1 | Arsenic, elemental | ヒ素 | 7440-38-2 | D | P# | | |
| 18-2 | Gallium arsenide | ヒ化ガリウム | 1303-00-0 | D | P# | | |
| 19 | Asbestos fibers, all members | 繊維状アスベストすべて | | P | P | Any intentionally added content | Reg. (EC) No 552/2009 Definition of asbestos fiber for counting purpose by OSHA in 1992 ; Particle with a length >5 µm, a diameter of <3µm and aspect ratio(length : width)>3 : |
| 20 | Asbestos Minerals, all members | 鉱物由来アスベストすべて | | D/P | P | Any intentionally added content | Potential to form Asbestos fibers (see entry Asbestos fibers) |
| 21 | Azodyes that can form carcinogenic amines, selected | 発がん性アミンを形成するアゾ染料 | | D/P | P# | | Reg. (EC) No 552/2009, Reg. (EC) No 1907/2006 (REACH), TRGS 614 A list of affected azo dyes has been prepared by an industrial association (TEGEWA), see List A in http://www.tegewa.de/uploads/media/2001_Azofarbstoffe_gemaess_TRGS_614.pdf |
| | 21-1 C.I. Solvent Red 23, C.I.26100 | スダンIII | 85-86-9 | D/P | P# | | TRGS 614 |
| | 21-2 C.I. Solvent Red 24, C.I.26105 | スダンIV | 85-83-6 | D/P | P# | | TRGS 614 |
| 22 | Barium compounds (organic or water soluble), selected | バリウム化合物(有機化合物あるいは水溶性化合物)、抜粋 | | D | D | 1% Calculated according to 4.3.1 of the GADSL guidance document. | Reg. (EC) No 1272/2008 |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|------------|-----------------------|------------------------------------|--|---|
| 22-1 | Barium bis(2-ethylhexanoate) | バリウム=ビス (2-エチルヘキサノアート) | 2457-01-4 | D | D/P | 0.3wt% | |
| 23 | Benzene | ベンゼン | 71-43-2 | D | P | 0.1% for physical solid state parts Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0005%) | Directive 98/70/EC |
| 24 | Benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-2,4,6-trinitro- (Musk xylene) | 5-tert-ブチル-2,4,6-トリニトロ-m-キシレン | 81-15-2 | D/P | P | 0.01 or Not intentionally added | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 25 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride | トリメリト酸無水物 | 552-30-7 | D | D | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 26 | 1,4-Benzenediamine, N,N'-mixed phenyl and tolyl derivs | N-モノメチルフェニル-N'-モノメチルフェニル-p-フェニレンジアミン | 68953-84-4 | <u>D/P</u> | D | 0.1%, Report any intentionally added content. No testing required. | Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Act, 1999 (CEPA, 1999). |
| 27 | 1,4-Benzenediamine, N,N'-mixed Ph and tolyl and xylyl | — | 68953-83-3 | D | D | | Included in list of substances under REACH PACT assessment |
| 28 | 1,4-Benzenediamine, N,N'-mixed tolyl and xylyl derivs. | — | 68478-45-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 29 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | フタル酸ジイソヘキシル | 68515-50-4 | <u>D/P</u> | P | | Annex XIV recommendation Reg. (EC) No 1272/2008 |
| 30 | 1,4 Benzenediol (Hydroquinone) | ヒドロキノン | 123-31-9 | D | D | | Canada SNAC http://www.gazette.gc.ca/rp-pr/p2/2011/2011-12-21/html/sor-dors293-eng.html |
| 31 | Benzenepropanoic acid, 3-(1,1-dimethylethyl)-4-hydroxy-5-methyl-, 1,2-ethanediybis(oxy-2,1-ethanediy) ester | ビス[3-(3-tert-ブチル-4-ヒドロキシ-5-メチルフェニル)プロピオン酸][エチレンビス(オキシエチレン)] | 36443-68-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 32 | Benzenesulfonic acid, C10-16-alkyl derivs. | ドデシルベンゼンスルホン酸 (ソフト型) (混合物) | 68584-22-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 33 | Benzenesulfonic acid, C10-16-alkyl derivs, compds. with 2-propanamine | ドデシルベンゼンスルホン酸イソプロピルアミン | 68584-24-7 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 34 | Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 直鎖アルキルベンゼンスルホン酸ナトリウム | 68411-30-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 35 | Benzenesulfonic acid, dodecyl(sulfophenoxy)-, sodium salt (1:2) | ドデシル(スルホフェノキシ)ベンゼンスルホン酸二ナトリウム | 28519-02-0 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 36 | Benzenesulfonic acid, oxybis[dodecyl-, disodium salt | ドデカン-1-イルベンゼンスルホナート | 25167-32-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 37 | Benzenesulfonic acid, [[4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]phenyl]amino]- (Pigment Blue 61) | [[4-[[4-(フェニルアミノ)フェニル][4-(フェニルイミノ)-2,5-シクロヘキサジエン-1-イルイデン]メチル]フェニル]アミノ]ベンゼンスルホン酸 | 1324-76-1 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|-------------------|-----------------------|------------------------------------|--|---|
| 38 | Benzidine and its salts, all members | ベンジジンおよびその塩すべて | | P | P | 0.01%, see details for Canada specific | Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) Canadian Toxic Substances Regulation 2005 |
| 39 | Benzododecinium chloride; | ドデシルベンジルジメチルアミニウム・クロリド | 139-07-1 | D | D/P | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 40 | Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2,4-bis(1,1-dimethylethyl)phenyl ester | 3,5-ジ-tert-ブチル-4-ヒドロキシ安息香酸2,4-ジ-tert-ブチルフェニル | 4221-80-1 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 41 | Benzophenone | ベンゾフェノン | 119-61-9 | D | D/P | | California Proposition 65 |
| 42 | Benzothiazole-2-thiol; 2-Mercaptobenzothiazole; | 2-メルカプトベンゾチアゾール | 149-30-4 | D | D/P | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 43 | 2-(2H-Benzotriazol-2-yl)-6-(1-methyl-1-phenylethyl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-928) | 2-(2H-ベンゾトリアゾール-2-イル)-6-(1-メチル-1-フェニルエチル)-4-(1,1,3,3-テトラメチルブチル)フェノール | 73936-91-1 | D | D | | Substance currently undergoing PBT assessment - likely to be included in REACH Candidate List |
| 44 | 2-Benzothiazolesulphonamide, N, N-dicyclohexyl- | N,N-ジシクロヘキサ-1-イル(1,3-ベンゾチアゾール-2-イル)スルファニルアミン | 4979-32-2 | D | D | Any intentionally added content must be reported | Japan Chemical Substances Control Law [Monitoring] |
| 45 | 2-(3H)-Benzothiazolethione, sodium salt (1:1) | 2-メルカプトベンゾチアゾールナトリウム | 2492-26-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 46 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 2-(2H-ベンゾトリアゾール-2-イル)-4,6-ビス(1,1-ジメチルプロピル)フェノール | 25973-55-1 | D/P | P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 47 | 2-(2H-benzotriazol-2-yl)-p-cresol (UV-P) | 2-(2-ヒドロキシ-5-メチルフェニル)ベンゾトリアゾール | 2440-22-4 | D | D | | Included in list of substances under REACH PACT assessment |
| 48 | 2-Benzyl-2-dimethylamino-4-morpholinobutyroph enone | 2-(ジメチルアミノ)-1-(4-モルホリノフェニル)-2-ベンジル-1-ブタノン | 119313-12-1 | D | D | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 49 | Beryllium and its compounds, all members | ベリリウムおよびその化合物すべて | | D | D | | Reg. (EC) No 1272/2008 |
| 50 | Biocidal coatings / biocidal additives, selected | バイオサイド化合物のコーティングおよび添加物、抜粋 | | D/P | D/P | Any intentionally added content | Reg. (EU) No 528/2012 This list is derived from the following product-types believed to be relevant to the GADSL criteria: product-type 7: Film preservatives; product-type 8: Wood preservatives and product-type 9: Fibre, leather, rubber and polymerised materials preservatives. These requirements apply only to intended use as a biocide. |
| 51 | bis(4-chlorophenyl) sulphone | 4,4'-ジクロロジフェニルスルホン | 80-07-9 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 52 | Bis(2-ethylhexyl) tetrabromophthalate; Tetrabromophthalic acid bis(2-ethylhexyl)ester (BEH-TEBP) | テトラブロモフタル酸ビス(2-エチルヘキシル) | 26040-51-7 | D | D | | |
| 53 | Bis(2-(2-methoxyethoxy)ethyl)ether | テトラエチレングリコールジメチルエーテル | 143-24-8 | D | D/P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 54 | Bis(chloromethyl) ether (BCME) | ビス(クロロメチル)エーテル(BCME) | 542-88-1 | P | P | Any intentionally added content | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 K-REACH |
| 55 | 2,2-bis(chloromethyl)trimethylene bis(bis(2-chloroethyl)phosphate) (V6) | [2,2-ビス(クロロメチル)-1,3-プロパンジール]ビスオキシビスホスホン酸テトラキス(2-クロロエチル) | 38051-10-4 | D | D | | Substance is part of Chlorinated trialkyl phosphates regulatory needs assessment where Restriction is recommended. |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|-------------|-----------------------|------------------------------------|---|---|
| 56 | Bis(a,a-dimethylbenzyl) peroxide | ビス(1-メチル-1-フェニルエチル) = ペルオキシド | 80-43-3 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 57 | Bisphenol & derivatives, selected | | | D | D/P | | |
| 57-1 | 4,4'-isopropylidenediphenol | 2,2-ビス(4-ヒドロキシフェニル)プロパン | 80-05-7 | D | D/P | 0.02* (Prohibit for thermal paper) | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 57-2 | 4,4'-sulphonyldiphenol | 4, 4'-スルホニルジフェノール | 80-09-1 | D | D/P | | Included in ECHA CfE on Restriction. Substance is also proposed for inclusion in Candidate List. |
| 58 | Boric acid/Orthoboric acid | ホウ酸/オルトホウ酸 | 10043-35-3 | D/P | D/P | | Reg. (EC) No 1907/2006 (REACH Candidate List) Reg. (EU) No 528/2012 |
| 59 | Boric acid/Orthoboric acid | ホウ酸/オルトホウ酸 | 11113-50-1 | D/P | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) Reg. (EU) No 528/2012 |
| 60 | Butadiene, 1,3 - | 1,3-ブタジエン | 106-99-0 | D | D | | Reg. (EC) No 1272/2008 |
| 61 | Cadmium and its compounds, all members | カドミウムおよびその化合物すべて | | D/P | P | 0.01% for impurities, any intentionally introduced content must be reported | Dir. 2000/53/EC Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) GB/T 30512 (ELV China) |
| 62 | Chlorinated hydrocarbons, selected | 塩素化炭化水素、抜粋 | | D/P | P | | Multiple (see below). Several chlorinated hydrocarbons listed are not explicitly prohibited in applications associated with manufactured articles, however, within the EU there is a general regulatory presumption toward substitution for industrial uses. |
| 62-1 | Trichloroethylene | トリクロロエチレン | 79-01-6 | D/P | P# | | Reg. (EC) No 1272/2008 (Carc. Cat. 2; N, R52/53) 99/13/EEC Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 63 | Chlorinated or brominated Dibenzo-p-dioxins or Dibenzofurans, all members | 塩素化および臭素化ダイオキシンおよびフランすべて | | P | P | Content above 10 ppb | Reg. (EC) 850/2004 |
| 64 | Chlorinated paraffins, short & medium chain length (SCCP, MCCP), all members: Note that the use of specific CAS numbers for these substances differs throughout the world. Example CAS numbers are provided below; however, other CAS numbers may be used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product-specific chain length. | 直鎖塩素化パラフィン(短鎖、中鎖)すべて 注：この化合物のCAS Noと物質は地域差があるので、調査時に対象を確認のこと | | D/P | D/P | 1% | Reg. (EC) 850/2004 |
| 64-1 | Alkanes, C10-12, chloro | 塩化パラフィン (C12, 60%塩) | 108171-26-2 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-2 | Alkanes, C10-13, chloro | 短鎖型塩化パラフィン | 85535-84-8 | P | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 64-3 | Alkanes, C12-13, chloro | クロロアルカン (C12-13) | 71011-12-6 | P | P | | Stockholm convention REACH Annex XIV Recommendation Reg. (EC) No 1272/2008 JPN CSCL Class1 |
| 64-4 | Alkanes, C14-17, chloro | クロロアルカン (C14-17) | 85535-85-9 | D | P | | Canada (SOR/2008-218) Reg. (EU) 2019/1021 |
| 64-5 | Alkanes, C10-21, chloro | クロロアルカン(C10-21) | 84082-38-2 | D/P | P | | All uses are "D" unless a C10 to C13 substance is present. Check with supplier to assure that no P substances (C10 to C13, see SCCP above) are included. If they are present the substance is classified P! |
| 64-6 | Alkanes, chloro; chloroparaffins | 塩素化パラフィン | 61788-76-9 | P | P | | Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale any SCCP effective January 1, 2013. |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|---|-------------|-----------------------|------------------------------------|----------------|--|
| 64-7 | Paraffin oils, chloro | クロロパラフィン | 85422-92-0 | P | P | | Stockholm Convention on Persistent Organic Pollutants Japan Chemical Substances Control Law [Class1] |
| 64-8 | Paraffin waxes and Hydrocarbon waxes, chloro | クロロアルカン、クロロパラフィン類 | 51990-12-6 | D | D/P | | UK DEFRA |
| 64-9 | Paraffin waxes, chloro | 塩素化パラフィン | 63449-39-8 | P | P | | Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale any SCCP effective January 1, 2013. |
| 64-10 | Chlorinated n-paraffins (C6-18) | 塩素化パラフィン (C6-18) | 68920-70-7 | P | P | | Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale any SCCP effective January 1, 2013. Japan Chemical Substances Control Law [Class1] |
| 64-11 | Alkane, C10-14-, Chloro- | クロロアルカン(C10-14) | 85681-73-8 | D/P | P | | |
| 64-12 | Alkane, C12-14-, Chloro- | クロロアルカン(C12-14) | 85536-22-7 | D/P | P | | |
| 64-13 | Alkane, C16-27-, Chloro- | クロロアルカン (C16-27) | 84776-07-8 | D/P | D/P | | |
| 64-14 | Alkane, C16-35-, Chloro- | クロロアルカン (C16-35) | 85049-26-9 | D/P | D/P | | |
| 64-16 | Alkanes, C10-26, chloro | クロロアルカン (C = 10 ~ 26) | 97659-46-6 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-17 | Alkanes, C10-32, chloro | クロロアルカン (C = 10 ~ 32) | 84776-06-7 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-18 | Paraffins (petroleum), normal C>10, chloro | クロロパラフィン (C > 10、直鎖型、石油系) | 97553-43-0 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-19 | Undecane, 1,1,1,3,5,7,9,11,11-nonachloro- | 塩素化パラフィン (C11、塩素数 7~12) | 18993-26-5 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-20 | Undecane, 1,1,1,3,6,7,10,11-octachloro- | 1, 1, 1, 3, 6, 7, 10, 11-オクタクロウンデカン | 601523-20-0 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-21 | Undecane, 1,1,1,3,9,11,11-octachloro- | 1, 1, 1, 3, 9, 11, 11, 11-オクタクロウンデカン | 601523-25-5 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-22 | Undecane, 1,2,10,11,?,?,?-octachloro- | 1, 2, 10, 11, ?, ?, ?-オクタクロウンデカン | 221174-07-8 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-23 | Undecane, decachloro- | デカクロウンデカン | 276673-33-7 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-24 | Undecane, heptachloro- | ヘプタクロウンデカン | 219697-10-6 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-25 | Undecane, nonachloro- | ノナクロウンデカン | 219697-11-7 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 64-26 | Undecane, octachloro- | オクタクロウンデカン | 36312-81-9 | P | P | | Japan Chemical Substances Control Law [Class1] |
| 65 | 5-Chlorobenzotriazole, 2-(2-Hydroxy-3-tert-butyl-5-methylphenyl)-(UV-326) | 2-(5-クロロ-2-ベンゾトリアゾル)-6-tert-ブチル-p-クレゾール | 3896-11-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 66 | Chromium(VI)-salts, all members | 六価クロム塩すべて | | D/P | P | | Reg. (EC) No 1272/2008, Reg.(EU) No 301/2014 Dir. 2000/53/EC Reg. (EC) No 1907/2006 (REACH) GB/T 30512 (ELV China) Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 66-1 | Chromic acid | クロム酸 | 7738-94-5 | D/P | P# | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 66-2 | Chromium trioxide (CrO3) | クロム酸無水化物 | 1333-82-0 | D/P | P# | | |
| 67 | C.I. Disperse Yellow 3 | N-[4-[(2-ヒドロキシ-5-メチルフェニル)アゾ]フェニル]アセトアミド | 2832-40-8 | D | D | | California Proposition 65 |
| 68 | C.I. Pigment Violet 29 (Perylene-3,4,9,10-tetracarboxydiimide) | 3,4,9,10-ペリレンテトラカルボン酸ジイミド | 81-33-4 | D | D | | US EPA TSCA List of Top 10 Priority Substances |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|------------------------|-------------|-----------------------|------------------------------------|--|--|
| 69 | Cobalt and its compounds, all members | コバルトおよびその化合物すべて | | D/P | D/P | 0.1% for impurities, any intentionally introduced content must be reported, 3mg/kg of chromium VI content in the total dry weight of the leather | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH) |
| 69-1 | Arsenic acid (H3AsO4), cobalt(2+) salt (2:3) | ヒ酸コバルト (II) | 24719-19-5 | D | P | | |
| 69-2 | Arsenopyrite, cobaltoan | コバルト アルセノパイライト | 12414-94-7 | D | P | | |
| 69-3 | Chromium cobalt copper iron manganese oxide | クロム、コバルト、銅、鉄の酸化物 | 102262-21-5 | D | D/P | | |
| 69-4 | Chromium cobalt iron manganese oxide | クロム、コバルト、鉄、マンガンの酸化物 | 102262-22-6 | D | P | | |
| 69-5 | Chromium cobalt manganese oxide | クロム、コバルト、マンガンの酸化物 | 102262-19-1 | D | P | | |
| 69-6 | Chromium cobalt oxide | 酸化クロムコバルト | 37382-24-4 | D | P | | |
| 69-7 | Chromium cobalt oxide (Cr2CoO4) | 酸化コバルトクロム | 12016-69-2 | D | P | | |
| 69-8 | Cobalt arsenide (CoAs) | ヒ化コバルト | 27016-73-5 | D | P | | |
| 69-9 | Cobalt arsenide (CoAs2) | ヒ化コバルト | 12044-42-7 | D | P | | |
| 69-10 | Cobalt arsenide (CoAs3) | ヒ化コバルト | 12256-04-1 | D | P | | |
| 69-11 | Cobalt chromate (Chromic acid (H2CrO4), cobalt(2+) salt (1:1)) | コバルトクロメート | 13455-25-9 | D/P | P | | |
| 69-12 | Cobalt chromium alloy | コバルトクロム合金 | 11114-92-4 | D | D/P | | |
| 69-13 | Cobalt chromite blue green spinel | - | 68187-50-8 | D | D/P | | |
| 69-14 | Naphthenic acid, cobalt lead manganese salt | - | 61789-50-2 | D/P | P | | REACH Annex XIV Recommendation |
| 69-15 | Cobalt bis(2-ethylhexanoate) | 2-エチルヘキサノ酸コバルト (I I) | 136-52-7 | D | D/P | | |
| 69-16 | Cobalt, borate 2-ethylhexanoate complexes | ホウ酸 2-エチルヘキサノ酸コバルト, 錯体 | 91782-60-4 | D | D/P | | |
| 69-17 | Cobalt octoate | 2-エチルヘキサノ酸/コバルト | 13586-82-8 | D | D/P | | |
| 70 | Colophony (Rosin), selected | コロホニー(ロジン)抜粋 | | D | D | | ACGIH Worldwide - Documentation of the TLVs and BEIs with other Worldwide Occupational Exposure Values; 2003. |
| 71 | Copper (metallic) | 銅(金属) | 7440-50-8 | D | D/P | 5% after 2021/1/1 for Brake pad | California and Washington state laws: CA SB 346 and WA SB 6557 (Regulations apply only to brake and friction material applications). |
| 72 | Critical Raw Materials | 重要な原材料 | - | D | D | California and Washington state laws: CA SB 346 and WA SB 6557 (Regulations apply only to brake and friction material applications). | <ul style="list-style-type: none"> 5 % copper and its compounds by weight (January 1, 2021) 0.5 % copper and its compounds by weight (January 1, 2025) |
| 73 | Cumene | クメン | 98-82-8 | D | D/P | | California Proposition 65 |
| 74 | Cyclododecane, hexabromo-(HBCD) | ヘキサブロモシクロドデカン(HBCD) | | D/P | P | for Canada report any intentionally added content | <ul style="list-style-type: none"> (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV see Sunset Date) Japan Chemical Substances Control Law [Class I] CEPA Toxic Expected prohibition date aligned with other signatories to the Stockholm Convention. Prohibition expected in 2014 to 2015. Report any intentional addition, no testing required |
| 75 | Cyclohexane-1,2-dicarboxylic anhydride | ヘキサヒドロイソベンゾフラン-1,3-ジオン | 85-42-7 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 76 | D&C Orange No. 17 | パーマネントオレンジ | 3468-63-1 | D | D | | California Proposition 65 |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|--|--------------------|-----------------------|------------------------------------|---------------------------------|--|
| 77 | Decamethylcyclotrisiloxane | 2, 2, 4, 4, 6, 6, 8, 8, 10, 10-デカメチルシクロペンタシロキサン | 541-02-6 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 78 | Decamethyltetrasiloxane | デカメチルテトラシロキサン | 141-62-8 | D | D | | Substance is included in registry of SVHC intentions until outcome published 13/03/2023. |
| 79 | Diamino-diphenylmethane (4,4'-Diaminodiphenylmethane) | ジアミノ-ジフェニルメタン(4,4'-ジアミノジフェニルメタン) | 101-77-9 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 80 | Diazene-1,2-dicarboxamide, Azodicarbonamide (ADCA) | C, C'-ジアゼンジイルジメタンアミド | 123-77-3 | D | P# | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 81 | 2,3-Dibromo-1-propanol (2,3-DBPA) | 2, 3-ジブロモプロパン-1-オール | 96-13-9 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 82 | 1,3-diethyl-2-thiourea | 1, 3-ジエチルチオ尿素 | 105-55-5 | D | D | | Included in ECHA Regulatory needs assessment where Restriction is recommended |
| 83 | 1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione | 2-メルカプトメチルベンズイミダゾール-ノック MMB | 53988-10-6 | D | D | | Included in list of substances under REACH PACT assessment |
| 84 | 1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt | 2(1,3-ジヒドロ-4-メチル-2H-ベンゾイミダゾール-2-チオン)-亜鉛 | 61617-00-3 | D | D | | Included in list of substances under REACH PACT assessment |
| 85 | 2,4-Dihydroxybenzophenone | 2, 4-ジハイドロキシベンゾフェノン | 131-56-6 | D | D | | Included in list of substances under REACH PACT assessment |
| 86 | Diisodecyl azelate | アゼライン酸ジイソデシル | 28472-97-1 | D | D | | Included in list of substances under REACH PACT assessment |
| 87 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one | 2-(ジメチルアミノ)-2-(4-メチルベンジル)-1-(4-モルホリノフェニル)ブタン-1-オン | 119344-86-4 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 88 | N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine, (6PPD) | N-(1,3-ジメチルブチル)-N'-フェニル-1,4-フェニレンジアミン | 793-24-8 | D | D | | May 2023 SAFER CONSUMER PRODUCTS REGULATIONS – Listing Motor Vehicle Tires Containing N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD) as a Priority Product Department of Toxic Substances Control reference number: R-2022-04R California Code of Regulations: title 22, division 4.5, chapter 55, article 11, section 69511.7 |
| 89 | Dimethylformamide (N,N-Dimethylformamide) | シメチルホルムアミド (N,N-ジメチルホルムアミド) | 68-12-2 | D/P | D/P | | Reg. (EC) No 1907/2006 (REACH Candidate List) Reg. (EC) No 1272/2008 Dir 91/689/EC Reg.(EU) No 2018/1513 (REACH) |
| 90 | N,N-Dimethylacetamide | N,N-ジメチルアセトアミド | 127-19-5 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 91 | 2,4 Dinitrotoluene | 2, 4-ジニトロトルエン | 121-14-2 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 92 | Diorganotin compounds | ジ有機スズ化合物 | | D/P | P | | (EU) No 276/2010, REACH Annex XVII |
| | 92-1 Dibutyltin compounds, all members | ジブチルスズ化合物 | | D/P | P | | (EU) No 276/2010, REACH Annex XVII https://public.mdsystem.com/documents/10906/17094/faq_organotin_compounds.pdf |
| | 92-2 Dibutyltin diacetate | ジブチルスズ二酢酸 | 1067-33-0 | D/P | P# | 0.1% (By weight of tin) | |
| | 92-3 Dibutyltin maleate | 2, 2-ジブチル-1, 3, 2-ジオキサスタネン-4, 7-ジオン | 78-04-6 | D/P | P# | 0.1% (By weight of tin) | |
| | 92-4 Dibutyltin oxide | ジブチルスズオキシド | 818-08-6 | D/P | P# | 0.1% (By weight of tin) | |
| | 92-5 Dibutyltin dilaurate | ジラウリン酸ジブチルスズ | 77-58-7 | D/P | P# | 0.1% (By weight of tin) | |
| | 92-6 Tin, dibutylbis(2,4-pentanedionato-O,O'), (OC-6-11)- | ジブチル錫ビス(アセチルアセトネート) | 22673-19-4 | D/P | P# | 0.1% (By weight of tin) | Reg. (EC) No 1907/2006 (REACH Candidate List) |

Table1 GADSL list

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|--|------------|-----------------------|------------------------------------|----------------------------|--|
| 92-7 | | ジオクチルスズ化合物 | | D/P | P | | (EU) No 276/2010 REACH Annex XVII: Use in fabrics or RTV-2 moulding kits etc with direct, prolonged skin contact is prohibited |
| 92-8 | Acetic acid,2,2'-[[diocetylstannylene]bis(thio)]bis-, 1,1'-diisooctyl ester | 2, 2'- [(ジオクチルスズニレン) ビス (チオ)] 二酢酸ジイソオクチル | 26401-97-8 | D/P | P# | 0.1% (By weight of tin) | |
| 92-9 | Di-n-octyltin bis(2-ethylhexyl maleate) | ビス (2-エチルヘキシル) = 4, 4'- [(ジオクチルスズニレン) ビスオキシ] ビス (4-オキソ-2-ブテノアート) | 10039-33-5 | D/P | P# | 0.1% (By weight of tin) | |
| 92-10 | Diocetylbis(stearoyloxy)stannane | ジオクチルビス [(1-オキソオクタデシル) オキシ] スズ | 22205-26-1 | D/P | P# | 0.1% (By weight of tin) | |
| 92-11 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | ビス (2-エチルヘキサン-1-イル) = 2, 2'- [(ジオクタン-1-イルスタンナンジール) ビス (スルファンジール)] ジアセタート | 15571-58-1 | D/P | P# | 0.1% (By weight of tin) | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 92-12 | Diocetyl tin dilaurate | ジオクチルビス [(1-オキソドデシル) オキシ] スズ | 3648-18-8 | D/P | P# | 0.1% (By weight of tin) | |
| 92-13 | Diocetyl tin oxide, (Stannane, dioctyloxo-) | ジオクチル (オキシ) スタンナン | 870-08-6 | D/P | P# | | |
| 92-14 | Diocetyl tin dodecanate | ジオクチルスズニレン = ビス (ネオデカノアート) | 68299-15-0 | D/P | P# | 0.1% (By weight of tin) | |
| 92-15 | | その他ジ有機スズ化合物 | | D/P | D/P | | (EU) No 276/2010 REACH Annex XVII: Use in fabrics or RTV-2 moulding kits etc with direct, prolonged skin contact is prohibited |
| 92-16 | 2-Ethylhexyl 10-ethyl-4,4-dimethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate | — | 57583-35-4 | D | D/P | | Included in list of substances under REACH PACT assessment |
| 92-17 | Dimethoxybis(pentane-2,4-dionato-O,O')tin | — | 66779-19-9 | D | D/P | | |
| 92-18 | Dimethyltin dichloride | ジクロロジメチルスズ | 753-73-1 | D | D/P | | Included in list of substances under REACH PACT assessment |
| 93 | 1,4-Dioxane | 1,4-ジオキサン | 123-91-1 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 94 | Disodium octaborate, anhydrous | — | 12008-41-2 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 95 | Disodium octaborate tetrahydrate; Boron sodium oxide (B8Na2O13), tetrahydrate | 十三酸化二ナトリウム八ホウ素四水和物 | 12280-03-4 | D/P | P# | | Reg. (EC) No 1907/2006 (REACH Candidate List) See also substance entry in Biocidal coatings / biocidal additives, selected |
| 96 | Disodium tetraborate, selected | N29,N30,N31,N32] スズ, (炭素数 6-12) | | D/P | D/P | | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH) |
| 96-1 | Tetraboron Disodium heptaoxide, hydrate | 四ホウ酸二ナトリウム | 12267-73-1 | D | P | | |
| 97 | 2,6-di-tert-butyl-p-cresol | 2,6-ジ-tert-ブチル-p-クレゾール | 128-37-0 | D | D | | Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 98 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol | 2,2'-メチレンビス(6-tert-ブチル-p-クレゾール) | 119-47-1 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 99 | 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol | 4,4'-チオビス(6-tert-ブチル-m-クレゾール) | 96-69-5 | D | D | | Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 100 | 2,5-di-tert-pentylhydroquinone | 2,5-ジ-tert-アミルヒドロキノン | 79-74-3 | D | D | | Included in list of substances under REACH PACT assessment |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|-------------|-----------------------|------------------------------------|--|---|
| 101 | 2,2'-Dithiobis(benzothiazole) | 2,2'-ジベンゾチアゾリルジスルフィド | 120-78-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 102 | Dodecachloropentacyclo[1,3,4-Metheno-1H-cyclobuta(cd)pentadiene, Mirex | ドデカクロロペンタシクロ[5.3.0.0(2,6).0(3,9).0(4,8)]デカンマイレックス | 2385-85-5 | P | P | Intentional addition prohibited | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 |
| 103 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene, all members | ドデカクロロドデカヒドロジメタノジベンソシクロオクテン | | P | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) Additional isomers were added to the List |
| 103-1 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene | 1, 2, 3, 4, 7, 8, 9, 10, 13, 13, 14, 14 -ドデカクロロ- 1, 4, 4a, 5, 6, 6a, 7, 10, 10a, 11, 12, 12a -ドデカヒドロ- 1, 4 ; 7, 10 -ジメタノジベンソ [a, e] シクロオクテン | 13560-89-9 | P | P | | |
| 103-2 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene | - | 135821-74-8 | P | P | | |
| 103-3 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1*6,9*.0*2,13*.0*5,10*]octadeca-7,15-diene | - | 135821-03-3 | P | P | | |
| 104 | Dodecamethylcyclotetrasiloxane (D6) | ドデカメチルシクロヘキサシロキサン | 540-97-6 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 105 | Dodecamethylpentasiloxane | ドデカメチルペンタシロキサン | 141-63-9 | D | D | | Substance is included in registry of SVHC intentions until outcome published 13/03/2023. |
| 106 | Epichlorohydrin (1-chloro-2,3-epoxypropane) | エピクロロヒドリン(1-クロロ-2,3-エポキシプロパン) | 106-89-8 | D | D | | Reg. (EC) No 1272/2008 |
| 107 | 1,1'-(ethane-1,2-diyl)bis(pentabromobenzene) | 1,2-ビス(2,3,4,5,6-ペンタブロモフェニル)エタン | 84852-53-9 | D | D | | Included in list of substances under REACH PACT assessment |
| 108 | Ethane-1,2-diol | エチレングリコール | 107-21-1 | D | D | | Included in list of substances under REACH PACT assessment |
| 109 | 1,1'-[Ethane-1,2-diylbis(oxy)]bis(2,4,6-tribromobenzene); 1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE) | 1,2-ビス(2,4,6-トリブロモフェノキシ)エタン | 37853-59-1 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 110 | Ethanol, 2-(2-methoxyethoxy)- | ジエチレングリコールトリエチレングリコール | 111-77-3 | D | D | 0.1%, Report any intentionally added content. No testing required. | Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Act, 1999 (CEPA, 1999). |
| 111 | Ethyl- / Methyl- Glycols and their Acetates | エチレングリコール(モノ/メチル)エーテルおよびそのアセテート類 | | D/P | D/P | Report any known concentration | See below |
| 111-1 | Propanol, 2-methoxy- | 2-メトキシ-1-プロパノール | 1589-47-5 | D | P | Report any known concentration | Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge). The Canadian Challenge is regulated under the Part 5, Section 71, of the Canadian Environmental Protection Act, 1999 (CEPA, 1999). |
| 111-2 | 2-Methoxyethanol | 2-メトキシエタノール | 109-86-4 | P | P# | 0.1% (Except Battery use) | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 111-3 | 2-Ethoxyethanol | 2-エトキシエタノール | 110-80-5 | D | P# | Report any known concentration | |

Table1 GADSL list

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|-----------|--|--|-------------------|-----------------------|------------------------------------|---|---|
| 111-4 | 2-Methoxyethyl acetate | 酢酸 2-メトキシエチル | 110-49-6 | D | P | Report any known concentration | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 112 | Ethylbenzene | エチルベンゼン | 100-41-4 | D | D | | California Proposition 65 |
| 113 | N,N'-ethylenebis(3,4,5,6-tetrabromophthalimide) | 2,2'-エチレンビス(4,5,6,7-テトラブロモイソインドリン-1,3-ジオン) | 32588-76-4 | D | D | | Included in list of substances under REACH PACT assessment |
| 114 | Ethylenediamine | エチレンジアミン | 107-15-3 | D | P | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 115 | Ethylene Glycol Monoethyl Ether Acetate | 酢酸2-エトキシエチル | 111-15-9 | D | P# | | California Proposition 65 |
| 116 | Ethylenethiourea/Imidazolidine-2-thione | エチレンチオ尿素 | 96-45-7 | D | D | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 117 | Formaldehyde | ホルムアルデヒド | 50-00-0 | D/P | P# | Any intentionally added content of formaldehyde must be reported. Formaldehyde in any material, which may be emitted under reasonable and foreseeable conditions, must be qualitatively indicated. Impurities of formaldehyde above 0.1 % has to be declared. | Reg. (EC) No 1272/2008 Reg. (EU) No 528/2012 (BPR) |
| 118 | Formaldehyde, reaction products with branched and linear heptylphenol, carbon disulfide and hydrazine | ケイ酸テトラエチルと(アセチルオキシ)ジブチルスズ酢酸塩との反応生成物 | 93925-00-9 | D | P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 119 | Glutaral; Glutaraldehyde; Pentane-1,5-dial; Pentanedial | グルタルアルデヒド (2426%水溶液) | 111-30-8 | D/P | D/P | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 120 | Hexachlorobenzene | ヘキサクロロベンゼン | 118-74-1 | D/P | P | 10 ppb | (EC) No 1272/2008, The Canadian Prohibition of Certain Toxic Substances Regulations 2012 Regulation states at Section 4 that: ...a person must not manufacture, use, sell, offer for sale or import a toxic substance set out in schedule 1 or a product containing it unless the toxic substance is incidentally present. Japan Chemical Substance Control Law [Class I]. Must use BAT (Best Available Technology) to assure lowest concentration. Levels above BAT are prohibited see http://www.meti.go.jp/policy/chemical_management/english/csl/publications.html |
| 121 | Hexachloro-1,3-butadiene (HCBD) | ヘキサクロロ-1,3-ブタジエン(HCBD) | 87-68-3 | P | P | Intentional addition prohibited | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 |
| 122 | Hexachlorocyclohexane, gamma isomer, Lindane | ヘキサクロロシクロヘキサン | 58-89-9 | P | P | | GefStoffV with Annex IV Nr. 5 |
| 123 | Hexahydromethylphthalic-anhydride | メチル-8-オキサビシクロ[4.3.0]ノナン-7,9-ジオン | 25550-51-0 | D | D | | Reg. (EC) No1907/2006 (REACH Candidate List) |
| 124 | Hexamethyldisiloxane | ヘキサメチルジシロキサン | 107-46-0 | D | D | | Included in list of substances under REACH PACT assessment |
| 125 | 2-Hexyldecan-1-ol | 2-ヘキシル-1-デカノール | 2425-77-6 | D | D | | Included in list of substances under REACH PACT assessment |
| 126 | Hydrazine | ヒドラジン | 302-01-2 | D | P | | Reg. (EC) No 1272/2008 |
| 127 | Hydrobromofluorocarbons (HBFC's), all members | ハイドロフロモフルオロカーボン(HBFC's)すべて | | P | P | | Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 1 ODS |
| 128 | Hydrochlorofluorocarbons (HCFC's), all members | ハイドロクロロフルオロカーボン(HCFC's)すべて | | D/P | P | | Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 2 ODS |
| 129 | Hydrofluorocarbons (HFC's), saturated, all members | ハイドロフルオロカーボン(HFC's)すべて | | D/P | P | | Kyoto Protocol |
| 130 | Indium tin oxide (ITO) | 酸化スズインジウム | 50926-11-9 | D | D | | Included in list of substances under REACH PACT assessment |

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|--|------------|-----------------------|------------------------------------|--|--|
| 131 | 1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromopropoxy)benzene] | 2,2-ビス[3,5-ジブromo-4-(2,3-ジブromoプロポキシ)フェニル]プロパン | 21850-44-2 | D | D | | Included in list of substances under REACH PACT assessment |
| 132 | 1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene] | 1,1'-(1-メチルエチリデン)ビス[3,5-ジブromo-4-(2,3-ジブromo-2-メチルプロポキシ)ベンゼン]. | 97416-84-7 | D | D | | Included in list of substances under REACH PACT assessment |
| 133 | Isodecyl diphenyl phosphate | りん酸8-メチルノニルジフェニル | 29761-21-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 134 | Isopropylphenyl phosphate | トリイソプロピルフェニルリン酸エステル | 68937-41-7 | D | D/P | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) TSCA Section 6(h) |
| 135 | Lead and its compounds, all members | 鉛およびその化合物すべて | | D/P | P | 0.1% for impurities, any intentionally introduced content must be reported | Dir. 2000/53/EC (ELV) Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 GB/T 30512 (ELV China) Included in list of substances under REACH PACT assessment Reg. (EC) No 1907/2006 (REACH) Application prohibited by EU-D 2011/65/EC (RoHS)(For general purpose product) |
| | | | | | | 0.01% | Application prohibited by national law of Denmark (For motorcycles) |
| 136 | Melamine | メラミン | 108-78-1 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) Dir. 2000/53/EC Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 GB/T 30512 (ELV China) |
| 137 | Mercury and its compounds, all members | 水銀およびその化合物すべて | | D/P | P | 0.1% for impurities, Intentional addition prohibited , 0% for motorcycle and general purpose product | Domestic law of the countries which approved ratification of Minamata Convention such as Reg. (EU) 2017/852 and Japan domestic law (Act on Preventing Environmental Pollution of Mercury) |
| 138 | Methanol | メタノール | 67-56-1 | D/P | D/P | 0.1% (Prohibit for window washer fluid) | Norway, Sweden (SFS 1985:840; SFS 1986:8), Denmark, Finland South Korea Registration and Evaluation of Chemical Substance Act (New standards for washer fluid for vehicles) Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII) |
| 139 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 2-[4-(メチルチオ)ベンゾイル]-2-(4-モルホリニル) プロパン. | 71868-10-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 140 | 4-Methylcyclohexyl-1,6-dicarboxylic acid anhydride | 4-メチルシクロヘキサン-1,2-ジカルボン酸無水物 | 19438-60-9 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 141 | 2,2'-[(1-methylethylidene)bis(2,6-dibromo-4,4'-phenylene)oxymethylene]bisoxirane (TBBPA-bG) | テトラブromoビスフェノールA ジグリシジルエーテル | 3072-84-2 | D | D | | Substance is included in TBBA derivative ECHA Regulatory Needs assessment published 07.06.22 where Restriction is recommended. |
| 142 | Methyloxirane | プロピレンオキシド | 75-56-9 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 143 | alpha-Methylstyrene | α-メチルスチレン | 98-83-9 | D | D | | California Proposition 65 |

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|-----------|--|--|-------------|-----------------------|------------------------------------|---|--|
| 144 | Mineral fibers (Natural or Synthetic), all members except: - Non-respirable fibers - Fibers with low biopersistence | 鉱物繊維(天然及び合成)、連続長繊維を除く) | | D | D/P | Fibers or fibrils that: 1. exceed biopersistence limits (i.e. don't fall under Nota Q of Reg. (EC) No 1272/2008 (CLP) and, 2. are considered respirable (i.e. not continuous filament or not falling under Nota R of EU-D 1272/2008 (CLP) and, 3. have a fibre diameter of 3 microns or less, and a length of 5 micron or more, with a length:diameter ratio equal to or greater than 3:1 (WHO definition) | Reg. (EC) No 1907/2006, (REACH Candidate List), and Dir. 2009/425/EC, Reg. (EC) No 1272/2008: CLP. - Except fibers with length weighted geometric mean diameter less two standard errors > 6 micron (i.e. Continuous Filament Fibers) and with < 10 days half life in short time inhalation test or < 40 days half life in IT instillation test |
| 144-1 | Ceramic Fibers | リフラクトリーセラミックファイバー | 142844-00-6 | D | P | | |
| 145 | Miristalkonium chloride; | ベンジルジメチルテトラデシルアンモニウムクロリド水和物 | 139-08-2 | D/P | D/P | Biocide usage: "-" | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 146 | Molybdenum trioxide | 三酸化モリブデン | 1313-27-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 147 | Monomethyldibromodiphenylmethane | モノメチルジブロモジフェニルメタン | 99688-47-8 | P | P | | Reg. (EC) No 552/2009 REACH Annex XVII |
| 148 | Monomethyldichlorodiphenylmethane | モノメチルジクロロジフェニルメタン | 81161-70-8 | P | P | | Reg. (EC) No 552/2009 REACH Annex XVII |
| 149 | Monomethyltetrachlorodiphenylmethane | モノメチルテトラクロロジフェニルメタン | 76253-60-6 | P | P | | Reg. (EC) No 552/2009 REACH Annex XVII |
| 150 | Naphthalenedisulfonic acid, dinonyl- | ジノニルナフタレン酸 | 60223-95-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 151 | Naphthalenesulfonic acid, dinonyl-, calcium salt (2:1) | カルシウム＝ビス(ジノニルナフタレンスルホナート) | 57855-77-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 152 | Naphthalenesulfonic acid, dinonyl- | ジノニルナフタレンスルホン酸 | 25322-17-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 153 | 2-Naphthylamine and its salts, all members | 2-ナフチルアミンおよびその塩すべて | | P | P | 0.01% | Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 Reg. (EU) No 2018/1513 (REACH) |
| 154 | N-1-naphthylaniline | N-フェニル-1-ナフチルアミン | 90-30-2 | D | D | | Included in list of substances under REACH PACT assessment |
| 155 | Nickel and its compounds, all members | ニッケルおよびその化合物すべて | | D/P | D/P | Calculated according to 4.3.1 of the GADSL guidance document. | Reg. (EC) No 552/2009 |
| 155-1 | Chromic acid (H2Cr2O7), nickel(2+) salt (1:1) | 重クロム酸ニッケルの塩 | 15586-38-6 | D/P | P | | |
| 155-2 | Chromium nickel oxide (Cr2NiO4) | 酸化クロムニッケル | 12018-18-7 | D | D/P | 0.5 µg/cm²/week | |
| 155-3 | Nickel arsenide (NiAs) | アルシニジンニッケル(III) | 27016-75-7 | D | D/P | 0.5 µg/cm²/week | |
| 155-4 | Nickel chromate | ニッケルクロメート | 14721-18-7 | D/P | P | | |
| 155-5 | Nickel diarsenide | ニヒ化ニッケル | 12068-61-0 | D | D/P | 0.5 µg/cm²/week | |
| 155-6 | Nickel,[6,8,16,18-tetrachloro-1,11-bis(2-furanylmethyl)-1,10,11,20-tetrahydrodibenzo[c,j]dipyrazolo[3,4-f:3',4'-m][1,2,5,8,9,12]hexaazacyclotetradecinato(2-)-N5,N10,N15,N20]- | [6,8,16,18-テトラクロロ-1,11-ビス(2-フラニルメチル)-1,10,11,20-テトラヒドロジベンゾ[c,j]ジピラゾロ[3,4-f:3',4'-m][1,2,5,8,9,12]ヘキサアザシクロテトラデシン酸(2-)-N5,N10,N15,N20]ニッケル | 79745-01-0 | D | D/P | 0.5 µg/cm²/week | |
| 155-7 | Rammelsbergite (NiAs2) | ヒ化ニッケル(NiAs2) | 1303-22-6 | D | D/P | 0.5 µg/cm²/week | |
| 155-8 | Spinel, cobalt nickel zinc grey | 尖晶石 (コバルトニッケル亜鉛グレー) | 95046-47-2 | D | D/P | | |
| 155-9 | Trinickel bis(arsenate) | ニヒ酸三ニッケル | 13477-70-8 | D | D/P | 0.5 µg/cm²/week | |

Table1 GADSL list

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|--|-------------|-----------------------|------------------------------------|---------------------------------|--|
| 155-10 | Residues, copper-iron-lead-nickel matte, sulfuric acid-insol. | 銅、鉄、鉛マット（かわ）の残渣の非水溶性亜硫酸化合物 | 102110-49-6 | D/P | P | | |
| 155-11 | Silicic acid, lead nickel salt | ケイ酸鉛ニッケル塩 | 68130-19-8 | D/P | P | | |
| 155-12 | 2-Ethylhexanoic acid, nickel salt | 2-エチルヘキサノ酸ニッケル(1:?) | 7580-31-6 | D | D/P | | |
| 155-13 | Bis(1,1,1,5,5,5-hexafluoropentane-2,4-dionato-O,O')nickel | ビス(ヘキサフルオロアセチルアセトナト)ニッケル(1:1) | 14949-69-0 | D | D/P | | |
| 156 | Nitrites, all | 亜硝酸塩全て | | D/P | D/P | | Reg. (EC) No 1272/2008 |
| 157 | 4-Nitrobiphenyl and its salts, all | 4-ニトロビフェニル及びその塩 | | P | P | | Reg. (EC) No 1272/2008, carcinogen class 2 Reg. (EC) No 552/2009 |
| 158 | Nitrocellulose | ニトロセルロース | 9004-70-0 | D | D | | Reg. (EC) No 1272/2008 Dir. 2007/23/EC |
| 159 | N-Nitrosamines, selected | N-ニトロソアミン、抜粋 | | D/P | D/P | | legally regulated according to German TRGS 552 limit for workplace air (value 1 µg/m ³), TRGS 615 limit for volatile corrosion inhibitors and TRGS 905 classified as carcinogenic class 1. Legally regulated for corrosion inhibition in papers, plastic films and oils via limiting the corresponding sec. amines to 0.5 %. |
| 159-1 | N-Nitroso diethanol amine | N-ニトロソジエタノールアミン | 1116-54-7 | D | P | | |
| 159-2 | Dimethylnitrosoamine; N-nitrosodimethylamine | N-ニトロソジメチルアミン | 62-75-9 | P | P | | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 25 |
| 159-3 | N-Nitrosodi-n-propylamine | ジプロピルニトロソアミン | 621-64-7 | D | P | | |
| 160 | 4-Nonylphenol, branched and linear, all members | ノニルフェノール | | D | P# | | Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 161 | Nonylphenol | ノニルフェノール | 25154-52-3 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 162 | 4-Nonylphenol, branched and linear, ethoxylated, all members | ノニルフェノールエトキシレートすべて | | D | P# | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 163 | O,O,O-triphenyl phosphorothioate | トリフェニルホスホロチオエート | 597-82-0 | D | D | | Included in list of substances under REACH PACT assessment |
| 164 | Octadecanamine | ステアリアルアミン | 124-30-1 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 165 | Octamethylcyclotetrasiloxane | 2, 2, 4, 4, 6, 6, 8, 8 - オクタメチルシクロテトラシロキサン | 556-67-2 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 166 | Octamethyltrisiloxane | オクタメチルトリシロキサン | 107-51-7 | D | D | | Included in list of substances under REACH PACT assessment |
| 167 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol | — | | D | D | | Included in list of substances under REACH PACT assessment |
| 168 | 4,4'-oxydianiline | 4,4'-オキシジアニリン | 101-80-4 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 169 | Ozone depleting halogenated Hydrocarbons and Carbons, all members | オゾン破壊性の炭化水素及び炭素すべて | | P | P | | Reg. (EEC) No 594/91; Reg. (EC) No 1005/2009; Montreal Protocol; US EPA Class 1 ODS |
| 170 | Pentachlorobenzene | ペンタクロロベンゼン | 608-93-5 | P | P | Any intentionally added content | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 |
| 171 | Pentachlorophenol (PCP) and its salts and esters, all members | ペンタクロロフェノール(PCP)およびその塩すべて | | P | P | 5ppm | Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 Japan Chemical Substance Control Law [Class I] |
| 172 | Perchlorates, all members | 過塩素酸塩すべて | | D/P | D/P | | California Assembly Bill No. 826 - Perchlorate Contamination Prevention Act; implemented July 1, 2006. http://www.dtsc.ca.gov/HazardousWaste/Perchlorate/ |
| 172-1 | Lead perchlorate | ビス過塩素酸鉛(II) | 13637-76-8 | D/P | P | | |

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|-------------------------------------|------------|-----------------------|------------------------------------|---|--|
| 172-2 | Lithium Perchlorate | 過塩素酸リチウム | 7791-03-9 | D | D/P | | |
| 172-3 | Magnesium Perchlorate | 二過塩素酸マグネシウム | 10034-81-8 | D | D/P | | |
| 172-4 | Perchloric acid, reaction products with lead oxide (pbo) and triethanolamine | - | 99749-31-2 | D/P | P | | |
| 172-5 | Perchloric acid, mercury(2+) salt | 二過塩素酸水銀(II) | 7616-83-3 | D/P | P | | |
| 172-6 | Potassium Perchlorate | 過塩素酸カリウム | 7778-74-7 | D | D/P | | |
| 172-7 | Sodium Perchlorate | 過塩素酸ナトリウム | 7601-89-0 | D | D/P | | |
| 172-8 | Thallium(3+) perchlorate | 三過塩素酸タリウム(III) | 15596-83-5 | D | D/P | | |
| 173 | Per and Poly-fluoroalkyl substances (PFAS), as identified in rows 174 to 190. | - | - | - | - | | |
| 174 | Perfluorobutane sulfonic acid (PFBS) and its salts, all members | パーフルオロブタンスルホン酸 (PFBS) とその塩、すべてのメンバー | - | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 175 | PFHxA, Undecafluorohexanoic acid, its salts and PFHxA related substances, all members, identified in rows 176 to 177. | - | - | - | - | | |
| 176 | PFHxA and its salts | PFHxAとその塩 | - | D | D | 25 ppb, except for fluoropolymers 500 ppm in | Substances listed are proposed for REACH Annex XVII Restriction. |
| 177 | PFHxA related substances | PFHxA関連物質 | - | D | D | 1,000 ppb, except for fluoropolymers 2,500 ppm in fluoropolymers | Substances listed are proposed for REACH Annex XVII Restriction. |
| 178 | PFOA, perfluorooctanoic acid, its salts and PFOA related compounds, all members, identified in rows 179 to 181. | - | - | P | P# | For Norway P at 1µg/m2 in textiles, carpets and coated products; Reg. (EC) No 2019/1021 and 2020/784: 0,025 mg/kg for PFOA including its salts, 1 mg/kg for the individual PFOA-related compounds or a combination of those compounds (with special exemption for PTFE micropowders). | Regulation (EC) No 2019/1021 (EU POP Regulation) and 2020/784; Regulation in USA (TSCA Section 5(a), SNUR); Canada (CEPA 1999, Prohibition of Certain Toxic Substances Regulations, 2012 (SOR/2012-285) – prohibited since 01.01.2017; Norway (FOR-2004-06-01-922); Stockholm Convention of Persistent Organic Pollutants (POP). South Korea Enforcement Rule of the Persistent Organic Pollutants Control Act |
| 179 | PFOA and its salts | PFOAとその塩 | - | P | P# | 25ppb | (EU) 2020/784 |
| 180 | PFOA Related Compounds | PFOA関連物質 | - | P | P# | 1,000 ppb | (EU) 2020/784 |
| 181 | Other PFOA Related Compounds | その他のPFOA関連物質 | - | P | P# | 1,000 ppb | (EU) 2020/784 |
| 182 | PFCAs (C9-C14), Linear and branched perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain, their salts and related substances, all members, identified in rows 183 to 184. | - | - | - | - | Please see REACH Annex XVII Restriction No.68 for details on exemptions. | |
| 183 | PFCAs (C9-C14) and their salts | PFCAs(C9-C14)とその塩 | - | P | <u>P</u> | 25 ppb | (EU) 2021/1297 |
| 184 | PFCAs (C9-C14) related substances | PFCAs(C9-C14)関連物質 | - | P | P | 260 ppb | (EU) 2021/1297 |

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|-----------|---|--|-------------|-----------------------|------------------------------------|--|--|
| 185 | PFOS, Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers), all members | PFOS、パーフルオロオクタンスルホン酸塩 C8F17SO2X (X = OH, 金属, ハロゲン, アミド, その他 (ポリマーを含む)(全て)) | - | P | P | | Reg. (EC) No 552/2009, Dir. 2006/122EC Canadian Environmental Protection Act, 1999 - Regulations Amending the Prohibition of Certain Toxic Substances Regulations, 2012 US EPA - SNUR: § 721.9582 Certain perfluoroalkyl sulfonates Stockholm Convention, Annex B Japan Chemical Substances Control Law [Class I] South Korea Enforcement Rule of the Persistent Organic Pollutants Control Act |
| 186 | PFHxS, Perfluorohexane-1-sulphonic acid and its salts and PFHxS Related Substances, all members, identified in rows 187 to 188. | - | - | - | - | | |
| 187 | PFHxS and its salts | PFHxSとその塩 | - | P | P | | Stockholm Convention of Persistent Organic Pollutants (POP) - Listed substances proposed for annex A (Elimination) |
| 188 | PFHxS related substances | PFHxS関連物質 | - | P | D/P | | Stockholm Convention of Persistent Organic Pollutants (POP) - Listed substances proposed for annex A (Elimination) |
| 189 | PFHpA, Perfluoroheptanoic acid and its salts, all members | PFHpA (ヘルフルオロヘプタン酸) およびその塩類 | - | D | D/P | | (EC) 1907/2006 (REACH Candidate List) The US state of Maine (on July 15, 2021) requires PFAS reporting starting January 1, 2023, and the banning of PFAS starting January 1, 2030. OECD/UNEP Global Perfluorinated Chemicals (PFC) Group. |
| 190 | Other PFAS Substances, all members (Includes substances taken from a series of government regulatory lists and compared to (major market) country inventories to obtain a list of commercially available PFAS substances not listed in other PFAS | その他のPFAS | - | D | D/P | Intentionally added including degradation byproducts | The US state of Maine (on July 15, 2021) requires PFAS reporting starting January 1, 2023, and the banning of PFAS starting January 1, 2030. OECD/UNEP Global Perfluorinated Chemicals (PFC) Group. |
| 190-1 | Dichlorotetrafluoroethane | ジクロロ (テトラフルオロ) エタン | 1320-37-2 | D | P | | |
| 190-2 | 2H,3H-Decafluoropentane | 1, 1, 1, 2, 3, 4, 4, 5, 5, 5 -デカフルオロペンタン | 138495-42-8 | D | P | | |
| 190-3 | 1,1,1,2,2-Pentafluoropropane | 1, 1, 1, 2, 2 -ペンタフルオロプロパン | 1814-88-6 | D | P | | |
| 190-4 | 1H-Heptafluoropropane | 1,1,1,2,2,3,3-ヘptaフルオロプロパン | 2252-84-8 | D | P | | |
| 190-5 | 1,1,2,2-Tetrafluorotetrachloropropane | 1, 1, 1, 3 -テトラクロロ - 2, 2, 3, 3 -テトラフルオロプロパン | 2268-46-4 | D | P | | |
| 190-6 | Hexafluoropropane | ヘキサフルオロプロパン | 27070-61-7 | D | P | | |
| 190-7 | 1,1-Dibromo-1,2,2,2-tetrafluoroethane | 1, 1 -ジブロモ - 1, 2, 2, 2 -テトラフルオロエタン | 27336-23-8 | D | P | | |
| 190-8 | 2-Chloro-1,1,1,2-tetrafluoroethane | 2 -クロロ - 1, 1, 1, 2 -テトラフルオロエタン | 2837-89-0 | D | P | | |
| 190-9 | Pentafluoroethane | 1, 1, 1, 2, 2 -ペンタフルオロエタン | 354-33-6 | D | P | | |
| 190-10 | 1,1-Dichlorotetrafluoroethane | 1, 1 -ジクロロ - 1, 2, 2, 2 -テトラフルオロエタン | 374-07-2 | D | P | | |

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|-----------|--|---|-------------------|-----------------------|------------------------------------|----------------|---|
| 190-11 | 3,3-Dichloro-1,1,1,2,2-pentafluoropropane | 3, 3 -ジクロロ-1, 1, 1, 2, 2 -ペンタフルオロプロパン | 422-56-0 | D | P | | |
| 190-12 | 1-Chloroheptafluoropropane | 1 -クロロ-1, 1, 2, 2, 3, 3, 3 -ヘプタフルオロプロパン | 422-86-6 | D | P | | |
| 190-13 | 1,1,1-Trichloro-2,2,3,3,3-pentafluoropropane | 1, 1, 1 -トリクロロ-2, 2, 3, 3, 3 -ペンタフルオロプロパン | 4259-43-2 | D | P | | |
| 190-14 | 1,1,1,2,3,3-Hexafluoropropane | 1, 1, 1, 2, 3, 3 -ヘキサフルオロプロパン | 431-63-0 | D | P | | |
| 190-15 | 2H-Perfluoropropane | 1, 1, 1, 2, 3, 3, 3 -ヘプタフルオロプロパン | 431-89-0 | D | P | | |
| 190-16 | 1,3-Dichloro-1,1,2,2,3-pentafluoropropane | 1, 3 -ジクロロ-1, 1, 2, 2, 3 -ペンタフルオロプロパン | 507-55-1 | D | P | | |
| 190-17 | 1,2-Dichlorohexafluoropropane | 1, 2 -ジクロロ-1, 1, 2, 3, 3, 3 -ヘキサフルオロプロパン | 661-97-2 | D | P | | |
| 190-18 | 3-Chloro-1,1,2,2-tetrafluoropropane | 3 -クロロ-1, 1, 2, 2 -テトラフルオロプロパン | 679-85-6 | D | P | | |
| 190-19 | 1,1,1,3,3,3-Hexafluoropropane | 1, 1, 1, 3, 3, 3 -ヘキサフルオロプロパン | 690-39-1 | D | P | | |
| 190-20 | Chloropentafluoroethane | 1 -クロロ-1, 1, 2, 2, 2 -ペンタフルオロエタン | 76-15-3 | D | P | | |
| 190-21 | 1,1,1,2-Tetrafluoroethane | 1, 1, 1, 2 -テトラフルオロエタン | 811-97-2 | D | P | | |
| 190-22 | 1,1,1-Trifluoroethane 1-Iodo-3,5-bis(trifluoromethyl)benzene | 1, 1, 1 -トリフルオロエタン | 420-46-2 | D | P | | |
| 190-23 | 2,2-Dichloro-1,1,1-trifluoroethane | 2, 2 -ジクロロ-1, 1, 1 -トリフルオロエタン | 306-83-2 | D | P | | |
| 190-24 | Bis(1,1,1,5,5,5-Hexafluoropentane-2,4-Dionato-O,O')Nickel | ビス(ヘキサフルオロアセチルアセトナト)ニッケル(ⅡⅡ) | 14949-69-0 | D | D/P | | |
| 190-25 | Chloro-1,1,1-trifluoroethane | 2 -クロロ-1, 1, 1 -トリフルオロエタン | 75-88-7 | D | P | | |
| 190-26 | Pentachlorotrifluoropropane | ペンタクロロ(トリフルオロ)プロパン | 134237-31-3 | D | P | | |
| 190-27 | Tetrachlorotrifluoropropane | テトラクロロトリフルオロプロパン | 29470-95-9 | D | P | | |
| 190-28 | Mercury(1+)trifluoroacetate | トリフルオロ酢酸水銀(Ⅰ) | 2923-15-1 | D | P | | |
| 190-29 | 1,1,1-Trichloro-2,2,2-trifluoroethane | 1,1,1-トリクロロトリフルオロエタン(CFC-113a) | 354-58-5 | D | P | | |
| 190-30 | 1,1,1,3,3-Pentafluorobutane | 1,1,1,3,3-ペンタフルオロブタン(HFC-365mfc) | 406-58-6 | D | P | | |
| 190-31 | 3-chloro-1,1,1-trifluoropropane | 3-クロロ-1,1,1-トリフルオロプロパン(HCFC-253fb) | 460-35-5 | D | P | | |
| 190-32 | HCFC 243 | 3,3-ジクロロ-1,1,1-トリフルオロプロパン | 460-69-5 | D | P | | |
| 190-33 | 1,1,1,3,3-Pentafluoropropane | 1,1,1,3,3-ペンタフルオロプロパン(HFC-245fa) | 460-73-1 | D | P | | |
| 190-34 | 1,1,1-Trichloro-3,3,3-trifluoropropane | 2,2,3-トリクロロ-1,1,1-トリフルオロプロパン | 7125-83-9 | D | P | | |
| 191 | Phenol | フェノール | 108-95-2 | D | D | | Reg. (EC) No 1272/2008 |

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|-----------|---|--|------------|-----------------------|------------------------------------|--|--|
| 192 | Phenol, 2,4-bis(1,1-dimethylethyl)- | 2,4-ジ-tert-ブチルフェノール | 96-76-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 193 | Phenol, 2,6-bis(1,1-dimethylethyl)- | 2,6-ジ-tert-ブチルフェノール | 128-39-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 194 | Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)- (UV 320) | 2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ブチルフェノール | 3846-71-7 | P | P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 195 | Phenol, 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)- (UV-234) | 2-[2-ヒドロキシ-3,5-ビス(α,α-ジメチルベンジル)フェニル]-2H-ベンゾトリアゾール | 70321-86-7 | D | D | | Included in list of substances under REACH PACT assessment Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 196 | Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)- (UV 329) | 2-(2-ヒドロキシ-5-tert-オクチルフェニル)ベンゾトリアゾール | 3147-75-9 | D | D | | Included in list of substances under REACH PACT assessment. Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020). |
| 197 | Phenol, 2-(2H-benzotriazol-2-yl)-4-(1,1-dimethylethyl)-6-(1-methylpropyl)- (UV 350) | 2-(2H-ベンゾトリアゾール-2-イル)-4-(1,1-ジメチルエチル)-6-(1-メチルプロピル)フェノール (UV350) | 36437-37-3 | D | P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 198 | Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1'-dimethylethyl)- (UV 327) | 2-(3,5-ジ-tert-ブチル-2-ヒドロキシフェニル)-5-クロロベンゾトリアゾール (UV327) | 3864-99-1 | D | P | Any intentionally added content must be reported | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 199 | Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | 4-メチルフェノールとジシクロペンタジエン及びイソブチレンとの反応生成物 | 68610-51-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 200 | Phenol, 4,4',4''-(1-methyl-1-propenyl-3-ylidene)tris[2-(1,1-dimethylethyl)-5-methyl-] | 1,1,3-トリス(2-メチル-4-ヒドロキシ-5-tert-ブチルフェニル)ブタン | 1843-03-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 201 | Phenol, 4,4'-methylenebis[2,6-bis(1,1-dimethylethyl)-] | 4,4'-メチレンビス(2,6-ジ-tert-ブチルフェノール) | 118-82-1 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 202 | Phenol, styrenated | スチレン化フェノール | 61788-44-1 | D | D | | Included in list of substances under REACH PACT assessment |
| 203 | Phenol, 4-(1,1,3,3-tetramethylbutyl)- | 4-(1,1,3,3-テトラメチルブチル)フェノール | 140-66-9 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 204 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated, selected | — | | D | P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 204-1 | alpha-(p-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxyethylene) | オクチルフェノールエトキシレート | 9036-19-5 | D/P | D/P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 204-2 | Polyethyleneglycol-[4-(1,1,3,3-tetramethylbutyl)phenyl]-ether | ポリ(オキシエチレン)=4-tert-オクチルフェニルエーテル | 9002-93-1 | D/P | D/P | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 205 | Phenol, 2-(1-methylpropyl)-4,6-dinitro- | 2-(1-メチルプロピル)-4,6-ジニトロフェノール | 88-85-7 | D | P | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 206 | Phenol, 2,4,6-tris(1,1-dimethylethyl)- | 2,4,6-トリス(1,1-ジメチルエチル)-フェノール | 732-26-3 | D/P | P | | Japan Chemical Substance Control Law [Class I] |
| 207 | Phenylendiamines and its salts, selected | フェニレンジアミンおよびその塩、抜粋 | | D | D | | Reg. (EC) No 1272/2008 Reg. (EC) No 552/2009 |
| 208 | Phenyl Glycidyl Ether | グリシジルフェニルエーテル | 122-60-1 | D | D | | California Proposition 65 |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|---|----------------|-----------------------|------------------------------------|---------------------------------|---|
| 209 | Phosphoric acid, bis[(1,1-dimethylethyl)phenyl] phenyl ester | ビス (ー プチルフェニル) フェニルホスフェート | 65652-41-7 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 210 | Phosphoric acid, (1,1-dimethylethyl)phenyl diphenyl ester | リン酸ジフェニルー4ープチルフェニル | 56803-37-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 211 | Phosphoric acid, triethyl ester, TEP | トリエチルホスフェート | 78-40-0 | D | D | | Canadian Environmental Protection Act, 1999 (CEPA 1999). Subject to mandatory risk management measures |
| 212 | Phosphoric acid, tris(2-methylphenyl) ester | リン酸トリクレジル | 78-30-8 | D | D | | Reg. (EC) No 1272/2008, toxic and dangerous for the environment |
| 213 | Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-propyl) esters, zinc salts | ジアルキルジチオリン酸亜鉛 | 84605-29-8 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 214 | Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts | ー | 85940-28-9 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 215 | Phosphorodithioic acid, mixed O,O-bis(iso-butyl and pentyl) esters, zinc salts | ジアルキル ジチオリン酸亜鉛 | 68457-79-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 216 | Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts | アルキル ジチオフォスフェート亜鉛 | 113706-15-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 217 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | ジンクジチオフォスフェート | 68649-42-3 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 218 | Phthalates, selected | フタル酸類、抜粋 | | D/P | D/P | | Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) US EPA Chemical Action Plan. http://www.epa.gov/oppt/existingchemicals/pubs/actionplans/phthalates.html Reg.(EU) No 2018/1513 (REACH) |
| 218-1 | 1,2-Benzenedicarboxylic acid; di-C6-8-branched alkylesters, C7-rich | 1,2-ベンゼンジカルボン酸、炭素数7の側鎖炭化水素を主成分とする炭素数6～8のフタル酸エステル類 | 71888-89-6 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) Reg.(EU) No 2018/1513 (REACH) |
| 218-2 | Bis(2-methoxyethyl) phthalate (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methoxyethyl) ester) | フタル酸ビス(2-メトキシエチル) | 117-82-8 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) Reg.(EU) No 2018/1513 (REACH) |
| 218-3 | Benzyl butyl phthalate (BBP) (1,2-Benzenedicarboxylic acid, 1-butyl 2-(phenylmethyl) ester) | フタル酸ブチルベンジル(BBP) | 85-68-7 | D/P | P# | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 218-4 | Di(2-ethylhexyl)phthalate (DEHP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester) | フタル酸ビス(2-エチルヘキシル)(DEHP) | 117-81-7 | D/P | P# | 0.01 or Not intentionally added | ・2輪・汎用向: 2020年7月7日以降禁止 4輪量産向: 2022年7月7日以降禁止 |
| 218-5 | Dibutylphthalate (DBP) (1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester) | フタル酸ジブチル(DBP) | 84-74-2 | D/P | P# | 0.01 or Not intentionally added | - For motorcycles and general purpose products : No use for parts after 2020/7/7 |

Table1 GADSL list

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|---|------------|-----------------------|------------------------------------|---------------------------------|---|
| 218-6 | Diisobutylphthalate (DiBP) (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methylpropyl) ester) | フタル酸ジイソブチル (DiBP) | 84-69-5 | D/P | P | 0.01 or Not intentionally added | - For four-wheel vehicles : No use for parts after 2022/7/7 |
| 218-7 | Heptyl undecyl phthalate (1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl-esters) | 1,2-ベンゼンジカルボン酸、炭素数7～11の分岐および直鎖アルキルエステル類 | 68515-42-4 | D | P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 218-8 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | - | 84777-06-0 | D | P | 0.01 or Not intentionally added | REACH Annex XIV REACH Annex XVII Reg. (EC) No 1272/2008 |
| 218-9 | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters | - | 68515-51-5 | D | P | 0.01 or Not intentionally added | |
| 218-10 | 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl | ビス[アルキル (C=6,8,10)]=フタラートの混合物 | 68648-93-1 | D | P | 0.01 or Not intentionally added | |
| 218-11 | Dihexyl phthalate | フタル酸ジヘキシル | 84-75-3 | D/P | P | 0.01 or Not intentionally added | REACH Annex XIV recommendation REACH Annex XVII Reg. (EC) No 1272/2008 |
| 218-12 | Diisopentylphthalate (DIPP) (1,2-Benzenedicarboxylic acid, 1,2-bis(3-methylbutyl) ester) | フタル酸ジイソアミル | 605-50-5 | D/P | P | 0.01 or Not intentionally added | REACH Annex XIV recommendation REACH Annex XVII Reg. (EC) No 1272/2008 |
| 218-13 | Dipentylphthalate (1,2-Benzenedicarboxylic acid, 1,2-dipentyl ester) | フタル酸ジペンチル | 131-18-0 | D/P | P | 0.01 or Not intentionally added | REACH Annex XIV recommendation REACH Annex XVII Reg. (EC) No 1272/2008 |
| 219 | Pitch, coal tar, high temp. | - | 65996-93-2 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 220 | Polyamine Curing Agents, selected | ポリアミン硬化剤、抜粋 | | D | D | | Not currently regulated but releasable hexamines are relevant to vehicle interior air quality |
| 221 | Polybrominated biphenyls (PBB), all members | ポリ臭化ビフェニル (PBB)すべて | | P | P | | Reg. (EC) No 552/2009 GB/T 30512 (ELV China) |
| 222 | Polybrominated diphenyl ethers (PBDE),all members | ポリ臭化ジフェニルエーテル(PBDE)すべて | | D/P | P | | Reg. (EC) No 552/2009 Reg. (EC) No 1907/2006 (REACH) Japan Chemical Substances Control Law [Class I] GB/T 30512 (ELV China) Canada (SOR/2008-218) Reg. (EU) 2019/1021 |
| 222-1 | Decabromodiphenyl ether ('Deca'; Decabromodiphenyl oxide) (Benzene, 1,1'-oxybis[2,3,4,5,6-pentabromo-) | デカブロモジフェニルエーテル | 1163-19-5 | D/P | P# | | Dec 2013 voluntary phase out US EPA. P by July 2015 in D.C. Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII). |
| 223 | Polybrominated terphenyls (PBT), all members | ポリ臭化ターフェニル (PBT)すべて | | D | D | | |
| 224 | Polychlorinated biphenyls (PCB), all members | ポリ塩化ビフェニル (PCB) | | P | P | | Reg. (EC) No 552/2009; 40 CFR §761.20; Japan Chemical Substance Control Law [Class I]; CEPA 19999 (SOR/2008-273) |
| 225 | Polychlorinated naphthalenes, all members | ポリ塩化ナフタレンすべて | | P | P | | Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale any PCN effective January 1, 2013. Japan Chemical Substance Control Law [Class I] |
| 226 | Polychlorinated terphenyls (PCT), all members | ポリ塩化ターフェニル (PCT)すべて | | P | P | | Reg. (EC) No 1907/2006 (REACH Annex XVII) |

Table1 GADSL list

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|-----------|--|-----------------------|----------|-----------------------|------------------------------------|---|--|
| 227 | Polycyclic aromatic hydrocarbons (PAH; PCAH), selected | 多環芳香族炭化水素 (PAH; PCAH) | | D/P | D/P | Extender oils used in tyre manufacturing process < 10 mg/kg of 8 REACH PAH or, polycyclic aromatics (PCA) < 3 % (w/w) tested with EN 16143:2013 in extender oils or in vulcanised rubber compounds < 0,35 % Bay protens tested with ISO 21461.Rubber and plastic article in contact with skin < 1 mg/kg for any of the 8 REACH PAH.textiles other than clothing in contact with skin. | Reg. (EC) No 1907/2006 (REACH) Reg. (EC) No 552/2009; Reg. (EC) No 1272/2008; General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) of the People's Republic of China |
| 227-1 | Anthracene | アントラセン | 120-12-7 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 227-2 | Benz[a]anthracene | ベンゾ[a]アントラセン | 56-55-3 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-3 | Benz[e]acephenanthrylene | ベンゾ[b]フルオランテン | 205-99-2 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-4 | Benzo[a]pyrene | 3,4-ベンゾピレン | 50-32-8 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-5 | Benzo[e]pyrene | ベンゾ[e]ピレン | 192-97-2 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-6 | Benzo[ghi]perylene | ベンゾ[ghi]ペルレン | 191-24-2 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |

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|-----------|---|--------------------------------------|------------|-----------------------|------------------------------------|---|---|
| 227-7 | Benzo[j]fluoranthene | ベンゾ[j]フルオランテン | 205-82-3 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-8 | Benzo[k]fluoranthene | ベンゾ[k]フルオランテン | 207-08-9 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-9 | Chrysene | 1, 2-ベンゾフェナントレン | 218-01-9 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Candidate List and Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-10 | Dibenz[a,h]anthracene | ジベンゾ[a,h]アントラセン | 53-70-3 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.0001%) | Reg. (EC) No 1907/2006 (REACH Annex XVII) Reg.(EU) No 2018/1513 (REACH) |
| 227-11 | Phenanthrene | フェナントレン | 85-01-8 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) GB/T 30512 (ELV China) |
| 227-12 | Pyrene | ピレン | 129-00-0 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) GB/T 30512 (ELV China) |
| 228 | 1,3-Propanesultone | 1,3-プロパンスルトン | 1120-71-4 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 229 | 2-Propanone, reaction products with diphenylamine (PREPOD) | ジフェニルアミンとアセトンの反物 | 68412-48-6 | D | D | | October 15, 2011 the Canadian government declared PREPOD as Toxic. They are proposing to ban the use of this substance. |
| 230 | Pyrrolidones, selected | ピロリドン, 抜粋 | | D/P | D/P | | Reg.(EU) No 2018/1513 (REACH) |
| 231 | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; Alkyl (C12-16) | アルキル (C 12 ~ 16) ジメチルベンジルアンモニウムクロライド | 68424-85-1 | <u>D</u> | D/P | Biocide usage: "-" | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 232 | Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with bentonite | — | 71011-24-0 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |

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| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|---------------------------|-------------------|-----------------------|------------------------------------|---|---|
| 233 | Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides, compds. with hectorite | — | 71011-26-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 234 | Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides; | ビスジメチルアンモニウムクロリド | 61789-80-8 | D | D/P | Biocide usage: "-" | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 235 | Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite | クオタニウム-18-ベントナイト | 68953-58-2 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 236 | Quaternary ammonium compounds, dicocooalkyldimethyl, chlorides | 塩化ジアルキルジメチルアンモニウム | 61789-77-3 | D/P | D/P | Biocide usage: "-" | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 237 | Quinoline | キノリン | 91-22-5 | D | D/P | | ARN Restriction. Substance included in Assessment of Regulatory needs where Restriction concluded as next regulatory step. |
| 238 | Resin acids and Rosin acids, calcium salts | 樹脂酸カルシウム | 9007-13-0 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 239 | Resin acids and Rosin acids, sodium salts | 樹脂酸ナトリウム | 61790-51-0 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 240 | Resin acids and Rosin acids, hydrogenated, esters with pentaerythritol | 水添樹脂酸ペンタエリスリチル | 64365-17-9 | D | D | | Included in list of substances under REACH PACT assessment |
| 241 | Resin acids and Rosin acids, hydrogenated, esters with glycerol | 水添樹脂酸エステルグリコール | 65997-13-9 | D | D | | Included in list of substances under REACH PACT assessment |
| 242 | Resin acids and Rosin acids, hydrogenated, methyl esters | 水添樹脂酸メチルエステル | 8050-15-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 243 | Radioactive substances (including scrap metal contaminants), all members | 放射性物質(スクラップ金属のコンタミを含む)すべて | | D | D | | 2013/59/EURATOM |
| 244 | Selenium and its compounds, all members | セレンおよびその化合物すべて | | D/P | D/P | Calculated according to 4.3.1 of the GADSL guidance document. | Japan Waste Management and Public Cleansing Law |
| 244-1 | Arsenic selenide (As₂Se₃) | 三セレン化二ヒ素 | 1303-36-2 | D | P | | |
| 244-2 | C.I. Pigment Orange 20 (Cadmium sulfoselenide orange) | ビグメントオレンジ 20 | 12656-57-4 | P | P | | |
| 244-3 | C.I. Pigment Red 108 Cadmium sulfoselenide red | ビグメントレッド108 | 58339-34-7 | P | P | | |
| 244-4 | Cadmium selenide (CdSe) | セレン化カドミウム | 1306-24-7 | D/P | P | 0.01* (0,002% for portable batteries) | |

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|-----------|--|--|-------------------|-----------------------|------------------------------------|---|--|
| 244-5 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, aluminum and copper-doped | セレン化カドミウム(CdSe)・硫化カドミウム・セレン化亜鉛・硫化亜鉛の固溶体アルミニウムと銅添加物 | 101357-00-0 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-6 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, copper and manganese-doped | セレン化カドミウム(CdSe)・硫化カドミウム・セレン化亜鉛・硫化亜鉛の固溶体マンガンと銅添加物 | 101357-01-1 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-7 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, europium-doped | セレン化カドミウム(CdSe)・硫化カドミウム・セレン化亜鉛・硫化亜鉛の固溶体ユーロピウム添加物 | 101357-02-2 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-8 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, gold and manganese-doped | セレン化カドミウム(CdSe)・硫化カドミウム・セレン化亜鉛・硫化亜鉛の固溶体金とマンガン添加物 | 101357-03-3 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-9 | Cadmium selenide (CdSe), solid solution with cadmium sulfide, zinc selenide and zinc sulfide, manganese and silver-doped | セレン化カドミウム(CdSe)・硫化カドミウム・セレン化亜鉛・硫化亜鉛の固溶体マンガンと銀添加物 | 101357-04-4 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-10 | Cadmium selenide sulfide (Cd(Se,S)) | 硫セレン化カドミウム | 12626-36-7 | P | P | | |
| 244-11 | Cadmium selenide sulfide (Cd ₂ SeS) | 硫セレン化カドミウム | 12214-12-9 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-12 | Cadmium selenide sulfide (CdSe _{0.53} S _{0.47}) | 硫セレン化カドミウム(CdSe:0.53S:0.47) | 71243-75-9 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-13 | Cadmium selenide sulfide, (Cd ₂ SeS) | 硫セレン化カドミウム(Cd ₂ SeS) | 12213-70-6 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-14 | Cadmium selenide sulphide | 硫化セレンカドミウム | 11112-63-3 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-15 | Lead selenate | セレン酸鉛(Ⅱ) | 7446-15-3 | D/P | P | | |
| 244-16 | Lead selenide (PbSe) | セレン化鉛(Ⅱ) | 12069-00-0 | P | P | | |
| 244-17 | Lead selenite | 亜セレン酸鉛(Ⅱ) | 7488-51-9 | D/P | P | | |
| 244-18 | Mercury selenide (HgSe) | 水銀(Ⅱ)セレニド | 20601-83-6 | D/P | P | | |
| 244-19 | Selenic acid, cadmium salt (1:1) | セレン酸カドミウム | 13814-62-5 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 244-20 | Selenious acid, cadmium salt (1:1) | 亜セレン酸カドミウム | 13814-59-0 | D/P | P | 0.01* (0,002% for portable batteries) | |
| 245 | Silica, crystalline | 結晶性シリカ | 14808-60-7 | D | D | | IARC Group 1 Carcinogen, US National Toxicology Program Probable Human carcinogen |
| 246 | Sodium azide | アジ化ナトリウム | 26628-22-8 | D | P | | |
| 247 | Styrene (Vinyl benzene) | スチレン(ビニルベンゼン) | 100-42-5 | D | D | | EU Risk Assessment |
| 248 | Styrene oxide (Epoxy styrene) | 酸化スチレン(エポキシスチレン) | 96-09-3 | D | D | | Reg. (EC) No 1272/2008 |
| 249 | Sulfonic acids, C10-18-alkane, phenyl esters | スルホン酸(C10-18)フェニルエステル | 70775-94-9 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|--|--|-------------|-----------------------|------------------------------------|--|--|
| 250 | Sulfonic acids, petroleum, calcium salts, overbased | 過石油スルホネートカルシウム塩 | 68783-96-0 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 251 | Sulfonic acids, petroleum, barium salts | 石油スルホネートバリウム塩 | 61790-48-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 252 | Sulfonic acids, petroleum, calcium salts | 石油スルホネートカルシウム塩 | 61789-86-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 253 | Sulfonic acids, petroleum, magnesium salts | 石油スルホネートマグネシウム塩 | 61789-87-5 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 254 | Sulfonic acids, petroleum, sodium salts | 石油スルホネートナトリウム塩 | 68608-26-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 255 | 4,4'-sulphonylbis[2,6-dibromophenol], Tetrabromobisphenol S, (TBBPS) | — | 39635-79-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 256 | Sulfur hexafluoride | 六フッ化硫黄 | 2551-62-4 | D/P | P | | EC No. 842/2006 |
| 257 | Tall Oil | 肪酸 | 8002-26-4 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 258 | Tall oil pitch | 肪酸ビッチ | 8016-81-7 | D | D | | Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 259 | Terphenyl, hydrogenated | 水素化ターフェニル | 61788-32-7 | D | P | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 260 | 4-tert-Butylphenol | 4-tert-ブチルフェノール | 98-54-4 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 261 | 1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1 | 1,4,5,8-テトラアミノ-9,10-アントラキノン | 2475-45-8 | D/P | P | Shall not be placed on the market textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing. (Concentration limit by weight 0.005%) | Reg.(EU) No 2018/1513 (REACH) |
| 262 | Tetrabromobisphenol A (TBBPA) | テトラブロモビスフェノールA(TBBPA) | 79-94-7 | D | D/P | | EU risk assessment |
| 263 | 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane and 2,4,6-tribromophenol | トリプロモフェノール・2,2'-ビス (ジプロモ-4-ヒドロキシフェニル) プロパン・2,2'-ビス[ジプロモ-4-(2,3-エポキシプロポキシ)フェニル]プロパン重付加物 | 158725-44-1 | D | D | | Substance is included in TBBA derivative ECHA Regulatory Needs assessment published 07.06.22 where Restriction is recommended. |
| 264 | 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 4,4'-イソプロピリデンビス(2,6-ジプロモフェノール)・1-クロロ-2,3-エポキシプロパン重付加物 | 40039-93-8 | D | D | | Substance is included in TBBA derivative ECHA Regulatory Needs assessment published 07.06.22 where Restriction is recommended. |
| 265 | Tetrachlorobenzene, all members | テトラクロロベンゼンすべて | | P | P | | Prohibition of Certain Toxic Substances Regulations, 2005 (SOR/SOR/2005-41. Published in Canada Gazette Part II, 2006-11-29 Vol. 140, No. 24 |
| 266 | Tetrafluoro-methane | テトラフルオロメタン (フッ化炭素) | 75-73-0 | D/P | P | | Reg. (EC) No. 842/2006 |
| 267 | N,N,N',N'-Tetramethyl-4,4'-methylenedianiline | ビス[4-(ジメチルアミノ)フェニル]メタン | 101-61-1 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 268 | Tetraphenyl m-phenylene bis(phosphate) | テトラフェニル m-フェニレン = ビスホスファート | 57583-54-7 | D | D | | Included in list of substances under REACH PACT assessment |
| 269 | Thallium | タリウム | 7440-28-0 | D | D | Calculated according to 4.3.1 of the GADSL guidance document. | Reg. (EC) No 1272/2008 |

Table1 GADSL list

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| GADSL No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Classification (管理区分) | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----------|---|-------------------------------------|-------------|-----------------------|------------------------------------|---------------------------------|--|
| 270 | Thioperoxydicarbonyl diamide ([(H ₂ N)C(S)] ₂ S ₂), tetramethyl-; Thiram; Tetramethylthiuram disulphide; | テトラメチルチウラムジスルフィド(別名チウラム又はチラム) | 137-26-8 | D/P | D/P | Biocide usage: "-" | Japan Waste Management and Public Cleansing Law Reg. (EU) No 528/2012 See GADSL Reference Biocide Included in list of substances under assessment in phase 3 of Canadian Chemical Management Plan (CMP3) (2016-2020) |
| 271 | Thiourea; thiocarbamide | チオ尿素 | 62-56-6 | D | D | | Included in ECHA Regulatory needs assessment where Restriction is recommended |
| 272 | Toluene | トルエン | 108-88-3 | D | D | | Reg. (EC) No 1272/2008, Toxic for reproduction-Category 3. Possible risk of harm to the unborn child. Reg. (EC) No 552/2009 |
| 273 | 2,4,6-Triallyloxy-1,3,5-triazine | シアマル酸 トリアリル | 101-37-1 | D | D | | Included in list of substances under REACH PACT assessment |
| 274 | Trichlorophenol and its salts, all | トリクロロフェノールおよびその塩すべて | | D | D | | Reg. (EC) No 1272/2008 |
| 275 | Trichloropropane (1,2,3 - Trichloropropane) | トリクロロプロパン (1,2,3-トリクロロプロパン) | 96-18-4 | D | P | | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 276 | (tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O- | - | 255881-94-8 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 277 | Trimethylphosphate | リン酸トリメチル | 512-56-1 | D | D | | Reg. (EC) No 552/2009 |
| 278 | Triorganotin compounds, all members | トリ有機スズ化合物すべて | | P | P | | Reg. (EC) No 552/2009, Reg. (EC) No 1272/2008, Reg. (EC) No 1907/2006 (REACH) Japan Chemical Substances Control Law [Class I]. Canadian Prohibition of Certain Toxic Substances Regulations, 2012 amended to prohibit the use, manufacture, import, sale and offer for sale of any TBT effective January 1, 2013 except TBTs with the grouping (C4H9)4Sn which are permitted up to a max concentration of 30% (w/w). Flame retardant under review |
| 279 | Triphenylphosphate | リン酸トリフェニル | 115-86-6 | D | D | | |
| 280 | 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione | イソシアマル酸トリグリシジル | 2451-62-9 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 281 | Tris(1,3-dichloro-2-propyl)phosphate | リン酸トリス-(1,3-ジクロロ-2-プロピル) | 13674-87-8 | D | D/P | | US California Prop 65 notify/labelling will be required, but not eliminated at this time http://oehha.ca.gov/prop65/background/p65plain.html , |
| 282 | Tris-(1-aziridinyl) phosphine oxide | トリス-(1-アジリジニル)ホスフィンオキシド | 545-55-1 | P | P | | Reg. (EC) No 1907/2006 (REACH Annex XVII) |
| 283 | Tris(2-chloro-1-methylethyl) phosphate | トリス (1 - クロロ - 2 - プロピル) = ホスファート | 13674-84-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 284 | Tris(2,3-dibromopropyl)phosphate (TRIS) | リン酸トリス(2,3-ジブロモプロピル)[TRIS] | 126-72-7 | P | P | | Reg. (EC) No 1907/2006 (REACH Annex XVII) K-REACH |
| 285 | Tris(2-chloroethyl)phosphate | リン酸トリス(2-クロロエチル) | 115-96-8 | D/P | P | 0.01 or Not intentionally added | Reg. (EC) No 1272/2008 Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 286 | tris(2-ethylhexyl)-benzene-1,2,4-tricarboxylate | トリメリット酸 トリス(2-エチルヘキシル) | 3319-31-1 | D | D | | Included in list of substances under REACH PACT assessment |
| 287 | Tris(methylphenyl) phosphate | リン酸トリクレジル (混合物) | 1330-78-5 | D | D | | Included in list of substances under REACH PACT assessment |
| 288 | Tris(nonylphenyl) phosphite (TNPP) | 垂リン酸トリス (4 - ノニルフェニル) | 26523-78-4 | D | D | | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 289 | Trixylyl phosphate | リン酸トリキシリル | 25155-23-1 | D/P | P# | | Reg. (EC) No 1907/2006 (REACH Annex XIV) |
| 290 | UVCB-Diamines, all members | - | | D | D | | Included in list of substances under REACH PACT assessment |
| 291 | Vanadium pentoxide (orthorhombic crystalline form) | 五酸化バナジウム | 1314-62-1 | D | D | | California Proposition 65 |
| 292 | zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | クロロエチレン(塩ビモノマー) | 4259-15-8 | D | D | | Included in list of substances under REACH PACT assessment |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P# : Prohibited substance. However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|---|---|-------------|--|---|---|
| 1 | Benzene, 1,1'-oxybis(tribromo- | トリブロモ (トリブロモフェノキシ) ベンゼン | 31153-30-7 | P | | Japan Chemical Substances Control Law |
| 2 | N,N'-ditolyl-p-phenylenediamine | N,N'-ジトリル-p-フェニレンジアミン | 27417-40-9 | P | | Japan Chemical Substances Control Law |
| 3 | N,N'-dixyl-p-phenylenediamine | N-トリル-N'-キシリル-p-フェニレンジアミン | 28726-30-9 | P | | Japan Chemical Substances Control Law |
| 4 | N-tolyl-N'-xyl-p-phenylenediamine | N,N'-ジキシリル-p-フェニレンジアミン | 70290-05-0 | P | | Japan Chemical Substances Control Law |
| 5 | Strontium chromate | アニリンとホルムアルデヒドの重合物 | 25214-70-4 | P | | REACH Annex XIV |
| 6 | Perchlorophenyl S-benzyl-N-(benzyloxycarbonyl)-L-cysteinate | N-[(フェニルメトキシ)カルボニル]-S-(フェニルメチル)-L-システインペンタクロロフェニル | 13673-54-6 | P | | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 7 | Pentachlorophenyl N-[[[4-methoxyphenyl)methoxy]carbonyl]-L-serinate | N-[[[4-メトキシフェニル)メトキシ]カルボニル]-L-セリンペンタクロロフェニル | 23234-97-1 | P | | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 8 | Pentachlorophenol | ペンタクロロフェノール | 85380-74-1 | P | | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 9 | L-PYROGLUTAMIC ACID PENTACHLOROPHENYL ESTER | (2S)-5-オキソ-2-ピロリジンカルボン酸ペンタクロロフェニル | 28990-85-4 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 10 | Cyclohexane,1,2,3,4,5,6-hexachloro-(1.alpha,2.beta,3.alpha,4.beta,5.alpha,6.beta)- | ヘキサクロロシクロヘキサン | 319-85-7 | P | 0% | Stockholm convention CLP GefStoffV with Annex14 Nr.5 Japan CSCLClass 1 |
| 11 | C.I. Basic Yellow 103 | ベースックイエロー103 | 54060-92-3 | P | | TRGS614 |
| 12 | Acetic acid, 2,2',2''-[[[methylstannylidene]tris(thio)]tris-, triisooctyl ester | 2,2',2''-[[メチルスタンニリジン]トリス(チオ)]トリス(酢酸6-メチルヘプチル) | 54849-38-6 | P | | REACH ANNEX XVII |
| 13 | Pyrochlore, antimony lead yellow; C.I. Pigment Yellow 41 | ビグメントイエロー41 | 8012-00-8 | P | | REACH CLP |
| 14 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | ビグメントイエロー34 | 61513-05-1 | P | 0.01% | REACH Annex XIV Sunset date2015/5/21 |
| 15 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | ビグメントイエロー34 | 61513-06-2 | P | 0.01% | REACH Annex XIV Sunset date2015/5/21 |
| 16 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | ビグメントイエロー34 | 61513-07-3 | P | 0.01% | REACH Annex XIV Sunset date2015/5/21 |
| 17 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | ビグメントイエロー34 | 8012-76-8 | P | 0.01% | REACH Annex XIV Sunset date2015/5/21 |
| 18 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) | ビグメントイエロー34 | 81209-53-2 | P | 0.01% | REACH Annex XIV Sunset date2015/5/21 |
| 19 | Sodium pentachloropenate monohydrate | — | 27735-64-4 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 20 | Pentachlorophenyl laurate | ドデカン酸ペンタクロロフェニル | 3772-94-9 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 21 | Pentachloroanisole | 1-メトキシ-2,3,4,5,6-ペンタクロロベンゼン | 1825-21-4 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 22 | N2-benzyl pentachlorophenyl N2-carboxy-L-(2-aminoglutaramate) | N2-[(ベンジルオキシ)カルボニル]-L-グルタミンペンタクロロフェニル | 13673-51-3 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 23 | Perchlorophenyl N-(benzyloxycarbonyl)-L-isoleucinate | ペンタクロロフェニル = N - [(ベンジルオキシ)カルボニル] - L - イソロイシナート | 13673-53-5 | P | 0% | Stockholm convention Japan CSCLClass 1 REACH Annex XVII |
| 24 | Bis(2-methoxyethyl)ether | ビス (2-メトキシエチル) エーテル | 111-96-6 | P | 0.01% | REACH CLP REACH Annex XIV |
| 25 | 4,4'-Methylene-bis-(2-chloroaniline) | 4,4'-メチレンビス(2-クロロアニリン) | 101-14-4 | P | 0.01% | REACH ANNEX XIV Reg. (EC) No 1272/2008 |
| 26 | N-pentyl-isopentylphthalate | フタル酸n-ペンチル-イソペンチル、n-ペンチル-イソペンチルフタレート | 776297-69-9 | P | 0.01% | REACH Annex XIV Reg. (EC) No 1272/2008 |
| 27 | Phenylmercury octanoate | オクタ酸フェニル水銀 | 13864-38-5 | P | 0.01% | REACH Annex XVII |
| 28 | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione); Teroxirone | β-1, 3, 5-トリス [(R) -2-オキシラン-2-イルメチル] - 1, 3, 5-トリアジン-2, 4, 6 (1H, 3H, 5H) -トリオン | 59653-74-6 | P# | | REACH SVHReg. (EC) No 1272/2008 |
| 29 | Cadmium sulphate | 硫酸カドミウム | 31119-53-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 30 | Cadmium (II) chloride monohydrate | 塩化カドミウム一水和物 | 35658-65-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 31 | Cadmium dioleate | ビスオレイン酸カドミウム | 10468-30-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 32 | Bis(dibutylthiocarbamate-S,S')cadmium | ビス(ジブチルカルバモジチオ酸)カドミウム | 14566-86-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|--|-------------------------|------------|--|--|---|
| 33 | Bis(pentane-2,4-dionato-O,O')cadmium | カドミウム(Ⅱ)アセチルアセトネート | 14689-45-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 34 | Tris(ethylenediamine)cadmium dihydroxide | — | 14874-24-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 35 | Cadmium bis(piperidine-1-carbodithioate) | ビス(1-ピペリジンカルボジチオ酸)カドミウム | 14949-59-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 36 | Bis(dimethyldithiocarbamate-S,S')cadmium | — | 14949-60-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 37 | Disodium tetrakis(cyano-C)cadmate(2-) | — | 15682-87-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 38 | Dipotassium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON']cadmate(2-) | — | 15708-29-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 39 | Cadmium dilactate | — | 16039-55-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 40 | 5-oxo-L-proline, cadmium salt | — | 16105-06-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 41 | Bis(ethylenediamine)cadmium(2+) bis[dicyanoaurate(1-)] | — | 18974-20-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 42 | Cadmium diphenolate | フェノールカドミウム塩 | 18991-05-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 43 | Cadmium bis(dipentylthiocarbamate) | — | 19010-65-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 44 | Cadmium disalicylate | カドミウムサリチル酸塩 | 19010-79-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 45 | Cadmium methacrylate | カドミウムメタクリル酸塩 | 24345-60-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---------------------------------------|-------------------------|------------|--|--|---|
| 46 | Cadmium epoxyoctadecanoate | カドミウムエポキシ樹脂 | 26264-48-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 47 | Dimethylcadmium | ジメチルカドミウム | 506-82-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 48 | Cadmium di(acetate) dihydrate | 酢酸カドミウム二水和物 | 5743-04-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 49 | Cadmium oxalate | シュウ酸カドミウム | 814-88-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 50 | Cadmium dithiocyanate | チオシアン酸カドミウム | 865-38-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 51 | Barium cadmium tetrastearate | バリウムカドミウムテトラステアリン酸塩 | 1191-79-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 52 | Cadmium di(octanoate) | 二オクタン酸カドミウム | 2191-10-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 53 | Cadmium p-toluate | アルキル安息香酸カドミウム | 2420-97-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 54 | Cadmium dilaurate | ラウリン酸カドミウム | 2605-44-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 55 | Cadmium didecanoate | ビスデカン酸カドミウム | 2847-16-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 56 | Cadmium bis[benzoate] | 二安息香酸カドミウム | 3026-22-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 57 | Cadmium 4-(1,1-dimethylethyl)benzoate | ビス(4-tert-ブチル安息香酸)カドミウム | 4167-05-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 58 | Cadmium cinnamate | ビス(3-フェニルプロペン酸)カドミウム | 4390-97-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

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|-----|---|------------------------------|------------|--|--|---|
| 59 | Cadmium sebacate | カドミウムセバケート | 4476-04-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 60 | Cadmium nonan-1-oate | ビスノナン酸カドミウム | 5112-16-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 61 | Cadmium dipalmitate | ビスパルミチン酸カドミウム | 6427-86-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 62 | Cadmium dianthranilate | — | 7058-55-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 63 | Cadmium toluate | メチル安息香酸カドミウム (ⅠⅠ) | 27476-27-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 64 | [[[N,N'-ethylenebis(glycinato)](2-)- N,N',O,O']cadmium | — | 29977-13-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 65 | Cadmium isooctanoate | ビス(6-メチルヘプタン酸)カドミウム | 30304-32-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 66 | Cadmium dodecylbenzenesulphonate | ドデシルベンゼンスルホン酸カドミウム(Ⅱ) | 31017-44-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 67 | Cadmium (1,1-dimethylethyl)benzoate | カドミウム(1,1ジメチルエチル)安息香酸塩 | 31215-94-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 68 | Cadmium [R-(R*,R*)]-tartrate | L-酒石酸/カドミウム | 34100-40-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 69 | Cadmium didocosanoate | ジヘン酸カドミウム | 34303-23-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 70 | Cadmium 3,5,5-trimethylhexanoate | — | 36211-44-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 71 | Cadmium(2+) (R)-12-hydroxyoctadecanoate | ビス[(R)-12-ヒドロキシオクタデカン酸]カドミウム | 38517-19-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---|----------------------------------|------------|--|--|---|
| 72 | Potassium [N,N-bis(carboxymethyl)glycinato(3-)-N,O,O',O'']cadmate(1-) | — | 49784-42-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 73 | Bis[N,N-bis(carboxymethyl)glycinato(3-)]tricadmium | — | 50648-02-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 74 | Cadmium o-toluate | ビス(2-メチル安息香酸)カドミウム | 52337-78-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 75 | Cadmium bis(4-cyclohexylbutyrate) | ビス(シクロヘキサンプタン酸)カドミウム | 55700-14-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 76 | Cadmium divalerate | ビス(ペンタン酸)カドミウム | 56982-42-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 77 | Naphthenic acids, cadmium salts | ナフテン酸、カドミウム塩 | 61789-34-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 78 | Cadmium neodecanoate | ネオデカン酸カドミウム | 61951-96-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 79 | Cadmium bis(heptadecanoate) | ジヘプタデカン酸カドミウム | 62149-56-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 80 | Cadmium pentadecanoate | ビスペンタデカン酸カドミウム | 63400-09-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 81 | (S)-dichloro[2-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]triethylmethylanmoniumato]cadmium | グリセロホスホリルコリン塩化カドミウムコンプレックス | 64681-08-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 82 | Bis(propane-1,2-diylamine-N,N')cadmium(2+) bis[bis(cyano-C)aurate(1-)] | — | 67906-19-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 83 | Cadmium dilinoleate | ビス[(9Z,12Z)-9,12-オクタデカジエン酸]カドミウム | 67939-62-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 84 | Tetrapotassium [[[[nitrioltris(methylene)]tris(phosphonato)]](6-)-N,O,O'',O''']cadmate(6-) | — | 67989-93-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

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|-----|--|--------------------|------------|--|--|---|
| 85 | Cadmium m-toluate | ビス(3-メチル安息香酸)カドミウム | 68092-45-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 86 | Fatty acids, C10-18, cadmium salts | 脂肪酸(C10-18)カドミウム塩 | 68131-58-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 87 | Fatty acids, C12-18, cadmium salts | 脂肪酸(C12-18)カドミウム塩 | 68131-59-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 88 | Benzyltriphenylphosphonium tetrachlorocadmate | — | 68214-25-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 89 | Pentapotassium hydrogen [[[ethylenebis[nitrilobis(methylene)]]tetrakis[phosphonato]](8-)]cadmate(6-) | — | 68309-98-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 90 | Cadmium sulfide (CdS), solid soln. with zinc sulfide, copper and lead-doped | — | 68332-81-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 91 | Fatty acids, C14-18, cadmium salts | 脂肪酸(C14-18)カドミウム塩 | 68409-82-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 92 | Cadmium, benzoate p-tert-butylbenzoate complexes | — | 68478-53-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 93 | Pyrochlore, bismuth cadmium ruthenium | — | 68479-13-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 94 | Cadmium sulfide (CdS), solid soln. with zinc sulfide, aluminum and cobalt and copper and silver-doped | — | 68784-10-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 95 | Barium cadmium calcium chloride fluoride phosphate, antimony and manganese-doped | — | 68784-55-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 96 | Fatty acids, tall-oil, cadmium salts | 脂肪酸高油カドミウム塩 | 68855-80-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 97 | Fatty acids, C8-18 and C18-unsatd., cadmium salts | — | 68876-84-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

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|-----|--|-----------------------|------------|--|--|---|
| 98 | Cadmium sulfide (CdS), aluminum and copper-doped | カドミウム硫化物、アルミニウムと銅の添加物 | 68876-98-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 99 | Cadmium sulfide (CdS), aluminum and silver- doped | カドミウム硫化物、アルミニウムと銅の添加物 | 68876-99-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 100 | Cadmium sulfide (CdS), copper chloride-doped | カドミウム硫化物、塩化銅添加 | 68877-00-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 101 | Cadmium sulfide (CdS), silver chloride-doped | カドミウム硫化物、塩化銀添加 | 68877-01-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 102 | Cadmium sulfide (CdS), copper and lead-doped | カドミウム硫化物、銅と鉛の添加物 | 68891-87-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 103 | Fatty acids, tallow, hydrogenated, cadmium salts | — | 68953-39-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 104 | Resin acids and Rosin acids, cadmium salts | 樹脂酸とロジン酸、カドミウム塩 | 68956-81-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 105 | Hydrogen [4-[(5-chloro-4-methyl-2-sulphophenyl)azo]-3-hydroxynaphthalene-2-carboxylato(3-)]cadmate(1-) | — | 68966-97-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 106 | Cadmium, dross | カドミウム不純物 | 69011-69-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 107 | Wastewater, cadmium sulfate electrolytic, acid | 廃水、電解硫酸カドミウム、酸 | 69012-21-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 108 | Flue dust, cadmium-refining | 煙塵、カドミウム精製物 | 69012-57-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 109 | Calcines, cadmium residue | 焙焼されたカドミウム残留物 | 69029-63-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 110 | Leach residues, cadmium-refining | カドミウム生成時にろ過された残留物 | 69029-70-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|---|---------------------------------------|------------|--|--|---|
| 111 | Residues, cadmium-refining | カドミウム精製残留物 | 69029-77-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 112 | Slimes and Sludges, cadmium-refining, oxidized | カドミウム精製時発生した汚濁・スラッジ | 69029-90-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 113 | Slimes and Sludges, cadmium sump tank | 汚濁とスラッジ、カドミウムサンプタンク | 69029-91-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 114 | Cadmium(2+) 12-hydroxyoctadecanoate | ビス(12-ヒドロキシステアリン酸)カドミウム | 69121-20-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 115 | Cadmium potassium 1- (hydroxyethylidene)bisphosphonate(1:2:1) | 1-ヒドロキシエチリデンビス(ホスホン酸)・カドミウム・2 カリウム | 69190-99-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 116 | Fatty acids, C12-18, barium cadmium salts | 脂肪酸(C12-18)バリウムカドミウム塩 | 70084-75-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 117 | (R)-12-hydroxyoleic acid, barium cadmium salt | (R)-12ヒドロキシオレイン酸、バリウムのカドミウム塩 | 71411-66-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 118 | Tetra-μ-chlorodichlorobis[2-[[[(2,3- dihydroxypropoxy)hydroxyphosphinyl]oxy]triethylm ethylammoniumato]tricadmium, stereoisomer | — | 71861-27-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 119 | Fatty acids, coco, cadmium salts | — | 72869-63-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 120 | Zircon, cadmium yellow | ジルコン、カドミウムイエロー | 72968-34-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 121 | Cadmium isononanoate | カドミウムイソノナノアート | 84696-56-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 122 | Cadmium isooctadecanoate | カドミウムイソオクタデカナート | 84878-36-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 123 | Cadmium tert-decanoate | カドミウムテトラデカナート | 84878-37-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---|------------------------------|------------|--|--|---|
| 124 | Cadmium bis(nonylphenolate) | ノニルフェノールカドミウム (II) | 84878-48-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 125 | Cadmium bis(octylphenolate) | オクチルフェノールカドミウム (II) | 84878-51-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 126 | Flue dust, lead-manufg., cadmium-rich | — | 85117-02-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 127 | Waste solids, cadmium-electrolysis, thallium-rich | — | 85117-20-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 128 | Fatty acids, C9-11-branched, cadmium salts | 脂肪酸C9-11分岐カドミウム塩 | 85586-15-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 129 | Bis(5-oxo-L-prolinato-N1,O2)cadmium | ビス(5-オキソ-L-プロリナトN1,O2)カドミウム | 85958-86-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 130 | Bis(5-oxo-DL-prolinato-N1,O2)cadmium | ビス(5-オキソ-DL-プロリナトN1,O2)カドミウム | 85994-31-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 131 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., cadmium salts | — | 90194-35-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 132 | Benzoic acid, cadmium salt, basic | 安息香酸、カドミウム塩 | 90218-85-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 133 | Decanoic acid, branched, cadmium salts | — | 90342-19-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 134 | Hexanoic acid, 2-ethyl-, cadmium salt, basic | ヘキサノイック酸-2-エチル-カドミウム塩 | 90411-62-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 135 | Propanoic acid, cadmium salt, basic | プロパノイック酸、カドミウム塩 | 90529-78-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 136 | Leach residues, cadmium cake | — | 91053-44-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---|-------------------------------------|------------|--|---|---|
| 137 | Leach residues, zinc ore-calcine, cadmium-copper ppt. | — | 91053-46-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 138 | Fatty acids, castor-oil, hydrogenated, cadmium salts | — | 91697-35-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 139 | Fatty acids, C8-10-branched, cadmium salts | 脂肪酸C8-10分岐カドミウム塩 | 92257-06-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 140 | Leach residues, zinc refining flue dust, cadmium-thallium ppt. | — | 92257-11-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 141 | Fatty acids, C9-13-neo-, cadmium salts | 脂肪酸C9-13-ネオ-カドミウム塩 | 92704-12-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 142 | Fatty acids, olive-oil, cadmium salts | 脂肪酸、オリーブオイル、カドミウム塩 | 92704-15-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 143 | Fatty acids, peanut-oil, cadmium salts | 脂肪酸、ピーナツオイル、カドミウム塩 | 92704-19-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 144 | Fatty acids, rape-oil, cadmium salts | 脂肪酸、菜種油、カドミウム塩 | 92704-24-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 145 | Fatty acids, C14-18 and C18-unsatd., branched and linear, hydrogenated, cadmium salts | — | 92797-28-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 146 | Bis(2-ethylhexyl mercaptoacetato -O',S)cadmium | — | 93858-50-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 147 | Cadmium bis(o-nonylphenolate) | カドミウムビス(0-ノニルフェレート) | 93894-07-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 148 | Cadmium bis(p-nonylphenolate) | カドミウムビス(p-ノニルフェレート) | 93894-08-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 149 | Cadmium bis[p-(1,1,3,3-tetramethylbutyl)phenolate] | カドミウムビス[p-(1,1,3,3-テトラメチルブチル)フェレート] | 93894-09-8 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---|---|-------------|--|--|---|
| 150 | Cadmium (Z)-hexadec-9-enoate | ビス[(Z)-9-ヘキサデセン酸]カドミウム | 93894-10-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 151 | Cadmium isodecanoate | カドミウムイソデカノアート | 93965-24-3 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 152 | Cadmium bis(isoundecanoate) | カドミウムビス(イソウンデカノアート) | 93965-30-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 153 | Cadmium dimethylhexanoate | カドミウム ジメチルヘキサノアート | 93983-65-4 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 154 | Cadmium tetrapentyl bis(phosphate) | カドミウムテトラペンチルビス(リン酸塩) | 94232-49-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 155 | Cadmium isooctyl phthalate (1:2:2) | カドミウムイソオクチルフタレート | 94247-16-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 156 | Cadmium (1-ethylhexyl) phthalate (1:2:2) | カドミウム(1-エチルヘキシル)フタレート | 94275-93-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 157 | Cadmium octyl phthalate (1:2:2) | カドミウムオクチルフタレート | 94275-94-2 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 158 | Leach residues, cadmium-contg. flue dust | — | 94551-70-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 159 | Cadmium isohexadecanoate | カドミウム イソヘキサデカノアート | 95892-12-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 160 | Cadmium diisobutyl dimaleate | (Z) - 2 - ブテン二酸モノ (2 - メチルプロピル) カドミウム (1 I) | 97259-82-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 161 | Zircon, cadmium orange | ジルコン、カドミウムオレンジ | 99749-34-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 162 | Flue dust, copper-lead blast furnace, cadmium-indium-enriched | — | 100656-55-1 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

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|-----|---|-------------------|-------------|--|--|--|
| 163 | Dodecanoic acid, cadmium salt, basic | — | 101012-89-9 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 164 | Octadecanoic acid, cadmium salt, basic | — | 101012-93-5 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 165 | Octadecanoic acid, 12-hydroxy-, cadmium salt, basic | — | 101012-94-6 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 166 | Cadmium perchlorate hexahydrate | 過塩素酸カドミウム六水和物 | 10326-28-0 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 167 | Cadmium chloride hydrate | カドミウムクロリドハイドレート | 654054-66-7 | P | 0.01% (0,002% for portable batteries) | REACH ANNEX XVII EU-D 2000/53/EEC JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 168 | Lead 202 | 鉛202 | 15752-86-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 169 | Lead 205 | 鉛205 | 14119-28-9 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 170 | Lead 210 | 鉛210 | 14255-04-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 171 | Lead uranate pigment | ウラン酸鉛顔料 | 85536-79-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 172 | Lead 198 | 鉛198 | 16646-00-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 173 | Lead 199 | 鉛199 | 27486-00-6 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 174 | Lead 200 | 鉛200 | 16645-99-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|--------------------------------------|-------------------|------------|--|--------------------------|--|
| 175 | Lead 201 | 鉛201 | 17239-87-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 176 | Lead 203 | 鉛203 | 14687-25-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 177 | Lead 209 | 鉛209 | 14119-30-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 178 | Lead 211 | 鉛211 | 15816-77-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 179 | Lead 212 | 鉛212 | 15092-94-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 180 | Lead 214 | 鉛214 | 15067-28-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 181 | Lead styphnate | スチフニン酸鉛 | 63918-97-8 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 182 | Lead, bis(carbonato(2-))dihydroxytri | 基性炭酸 | 1344-36-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 183 | Lead Molybdate Orange YE 428D (9CI) | — | 37268-42-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 184 | Lead Molybdate Orange YEE 98D (9CI) | — | 50935-72-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 185 | Lead Borosilicate | 鉛ホウケイ酸塩 | 65997-18-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|-------------------------------|-------------------|--------------|--|--------------------------|--|
| 186 | Lead dinitrate | 二硝酸塩鉛 | 18256-98-9 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 187 | Lead monoxide (lead oxide) | 一酸化鉛 | 12359-23-8 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 188 | Lead monoxide (lead oxide) | 一酸化鉛 | 1309-59-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 189 | Lead titanium trioxide | 三酸化チタン鉛 | 10099-62-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 190 | Lead titanium trioxide | 三酸化チタン鉛 | 14650-47-6 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 191 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 106804-23-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 192 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 118217-11-1 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 193 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 1245817-44-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 194 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 135699-34-2 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 195 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 143928-79-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 196 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 188417-76-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|----------------------------------|-------------------|-------------|--|--------------------------|--|
| 197 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 200444-20-8 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 198 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 37189-44-9 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 199 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 37221-92-4 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 200 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 37382-38-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 201 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 39387-81-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 202 | Lead titanium zirconium oxide | 鉛チタンジルコニウム酸化物 | 56730-15-5 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 203 | orange lead (lead tetroxide) | 四酸化塩 | 12684-34-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 204 | orange lead (lead tetroxide) | 四酸化塩 | 940949-96-2 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 205 | Pyrochlore, antimony lead yellow | バイロクロール、アンチモンイエロー | 12710-25-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 206 | Pyrochlore, antimony lead yellow | バイロクロール、アンチモンイエロー | 68187-20-2 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 207 | Lead diazide, Lead azide | — | 85941-57-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|--|-------------------|------------|--|-------------------------------------|--|
| 208 | Lead dipicrate | — | 34352-43-8 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 209 | Lead dipicrate | — | 65308-86-3 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 210 | Lead styphnate | — | 4219-19-6 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 211 | Lead styphnate | — | 59286-40-7 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 212 | Lead styphnate | — | 6594-85-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 213 | Lead titanium zirconium oxide | — | 69670-72-0 | P | 0.1% or ELV exemption | EU-D 2000/53/EEC Reg.(EC) No 1272/2008 Reg.(EC) No 552/2009 JAMA Voluntary regulation Korean Recycling Law Voluntary restraint by Taiwan scrap Vehicle Recycling Industry GB/T 30512(ELV China) |
| 214 | 2,4,5-Trimethylaniline | 2,4,5-トリメチルアニリン | 137-17-7 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 215 | 1alpha,2alpha,3alpha,4beta,5alpha,6beta)- 1,2,3,4,5,6-Hexachlorocyclohexane | ヘキサクロロシクロヘキサン | 319-86-8 | P | | Stockholm convention Reg.(EC) No 1272/2008 GefStoffV with ANNEX IV Nr.5 JPN CSCL Class 1 substance |
| 216 | Pentadecafluorooctanoic acid (PFOA) | パーフルオロオクタン酸 | 678-41-1 | P | | Stockholm convention REACH ANNEX XVII Reg.(EC) No.1272/2008 |
| 217 | 1,2-Dichloroethane; ethylene dichloride | 1,2-ジクロロエタン | 107-06-2 | P | 0.01% or Not intentionally added | REACH Annex XIV Reg. (EC) No 1272/2008 |
| 218 | Hydrazine hydrate | ヒドラジン・水和物 | 7803-57-8 | P | | REACH SVHC |
| 219 | chromium hexacarbonyl | クロムカルボニル | 13007-92-6 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/53/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |
| 220 | calcium chromate | クロム酸カルシウム・2水和物 | 10060-08-9 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/54/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |
| 221 | Chromate (CrO42-) | クロム酸ジアニオン | 13907-45-4 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/55/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |
| 222 | Chromate(2-), [2-[[[4-hydroxy-3-[(2- hydroxyphenyl)methylene]amino]p... | — | 85407-92-7 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/56/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

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|-----|--|---|------------|--|-----------------------|--|
| 223 | Disodium (2-hydroxy-3-((2-hydroxy-1-naphthyl)azo)-5-nitrobenzene-1-sulphonato(3-))((2-hydroxy-4-nitrophenyl)azo)-2-naphtholato(2- | — | 84145-95-9 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/57/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |
| 224 | Disodium (4-hydroxy-3-((2-hydroxy-4-nitrophenyl)azo)naphthalene-1-sulphonato(3-))((2-hydroxy-4-nitrophenyl)azo)-2-naphtholato(2-))chromate(2-) | — | 68541-71-9 | P | 0.1% or ELV exemption | REACH Annex XIV Reg. (EC) No 1272/2008 EU-D 2000/58/EEC JAMA volubtary regulation Korean Recycling Law Voluntary restraint Taiwan scrap Vehicle recycling industry |
| 225 | N-methylacetamide | N-メチルアセトアミド | 1320-47-4 | P | | REACH SVHC |
| 226 | Cyclododecane | シクロドデカン | 294-62-2 | P | | REACH SVHC proposal |
| 227 | C.I. Disperse Yellow 7, C.I.26090 | C.I.ディスパースイエロー7 | 67701-38-6 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 228 | 4,4'-Methylenedi-o-toluidine | 4,4'-ジアミノ-3,3'-ジメチルジフェニルメタン | 838-88-0 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 229 | 4,4'-Thiodianiline | ビス(4-アミノフェニル) スルフィド | 139-65-1 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 230 | 4-Chloraniline | 4-クロロアニリン | 106-47-8 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 231 | 4-Chloro-o-toluidine | 2-アミノ-5-クロロトルエン | 95-69-2 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 232 | 4-Methoxy-m-phenylenediamine | 2,4-ジアミノアニソール | 615-05-4 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 233 | 4-Methyl-m-phenylenediamine | 2,4-ジアミノトルエン | 95-80-7 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 234 | 5-Nitro-o-toluidine | 2-メチル-5-ニトロアニリン | 99-55-8 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 235 | o-Aminoazotoluene | 2-アミノアソトルエン | 97-56-3 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 236 | o-Anisidine | o-アニシジン | 90-04-0 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 237 | p-Cresidine | 2-メトキシ-5-メチルアニリン | 120-71-8 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 238 | 4-Aminoazobenzene | 4-アミノアゾベンゼン | 60-09-3 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 239 | [1,1'-Biphenyl]-2,4,4'-triamine | 1,1'-ビフェニル-2,4,4'-トリアミン | 2835-69-0 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 240 | tetrasodium 5-benzamido-3-(5-(4-fluoro-6-(1-sulphonato-2-naphthylamino)-1,3,5-triazin-2-ylamino)-2-sulphonatophenylazo)-4-hydroxynaphthalene-2,7- disulphonate | 5-ベンゾイルアミノ-3-[5-[4-フルオロ-6-(1-ソジオスルホ-2-ナフチルアミノ)-1,3,5-トリアジン-2-イルアミノ]-2-ソジオスルホフェニルアゾ]-4-ヒドロキシ-2,7-ナフタレンジスルホン酸ジナトリウム | 85665-97-0 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 241 | N-(4-(1,1,3,3-tetramethylbutyl))phenyl-1-naphthylamine | N-(4-(1,1,3,3-テトラメチルブチル))フェニル-1-ナフチルアミン | 4572-51-4 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 242 | 2-aminonaphthalene-1-sulphonic acid | 2-アミノ-1-ナフタレンスルホン酸 | 81-16-3 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 243 | 3,3'-dimethoxybiphenyl-4,4'-ylenediammonium dichloride | 3,3'-ジメトキシベンジジン二塩酸塩 | 20325-40-0 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 244 | Acetamide, N-(2-((2-bromo-4,6-dinitrophenyl)azo)-5-(diethylamino)phenyl)- | 2-(アセチルアミノ)-2'-ブロモ-4-(ジエチルアミノ)-4',6'-ジニトロアゾベンゼン | 52697-38-8 | P | | REACH SVHC/ANNEX XVII German TRGS 614 Reg.(EC) No 1272/2008 |
| 245 | Bis(arsenic acid) monohydrate | ヒ酸(1/2水塩) | 7774-41-6 | P | | REACH ANNEX XIV Recommendation |
| 246 | Nitrobenzene | ニトロベンゼン | 98-95-3 | P | | REACH SVHC |
| 247 | N,N'-dimethylbenzidine | N,N'-ジメチルベンジジン | 2810-74-4 | P | | REACH ANNEX XVII Canadian Toxic Substances Regulation2005 |
| 248 | benzyl chloride (alpha-chlorotoluene ; chloromethylbenzene) | 塩化ベンジル | 100-44-7 | P | | PACT Reg.(EC) No 1272/2008 |
| 249 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone) | 4,4'-ビス(ジメチルアミノ)ベンゾフェノン | 90-94-8 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 250 | o,p'-DDE (1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethenyl)benzene ; 2,2,o,p'-tetrachlorovinylidenebisbenzene) | 1-クロロ-2-[2,2-ジクロロ-1-(4-クロロフェニル)ビニル]ベンゼン | 3424-82-6 | P | | - |
| 251 | o,p'-DDD (Mitotane ; 1,1-dichloro-2,2-bis(2,4'-dichlorophenyl)ethane) | — | 53-19-0 | P | | - |
| 252 | Chloromethane | クロロメタン | 74-87-3 | P | | - |
| 253 | 1,3,5-Trichlorobenzene | 1,3,5-トリクロロベンゼン | 108-70-3 | P | | REACH SVHC proposal |
| 254 | 1,2,3-Trichlorobenzene | 1,2,3-トリクロロベンゼン | 87-61-6 | P | | REACH SVHC proposal |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P# :Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|---|----------------------------------|--------------|--|-------------------|---|
| 255 | Chloromethyl methyl ether (CMME) | クロロメチルメチルエーテル | 107-30-2 | P | | Published in Canada Gazette Part II. 2006-11-29 Vol. 140 ,No,25 Reg.(EC) No 1272/2008 |
| 256 | Henicosafuoroundecanoic acid | | 110961-38-1 | P | | REACH SVHC |
| 257 | cis-cyclohexane-1,2-dicarboxylic anhydride | cis-1,2-シクロヘキサンジカルボン酸無水物 | 13149-00-3 | P | | REACH SVHC |
| 258 | trans-cyclohexane-1,2-dicarboxylic anhydride | (±)-trans-1,2-シクロヘキサンジカルボン酸無水物 | 14166-21-3 | P | | REACH SVHC |
| 259 | dibutylbis(nonanoyloxy)stannane | ジブチルビス[(1-オキソノニル)オキシ]すず(IV) | 25955-19-5 | P | | (EU)No 276/2010 REACH ANNEX XVII |
| 260 | ugilec 121 (p,p'-dichlorodiphenyl ethane); Benzene, 1,1 - ethylidenebis(4-chloro- | 1,1'-エチリデンビス(4-クロロベンゼン) | 3547-04-4 | P | 0% | Stockholm convention Reg.(EC) No 1272/2008 |
| 261 | 1,2-Diethoxyethane | 1,2-ジエトキシエタン | 629-14-1 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 262 | Diethyl sulphate | 硫酸ジエチル | 64-67-5 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 263 | Dimethyl sulphate | 硫酸ジメチル | 77-78-1 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 264 | N,N-dimethylformamide | N,N-ジメチルホルムアミド | 15175-63-0 | P | | REACH ANNEX XIV Recommendation |
| 265 | N,N-dimethylformamide | N,N-ジメチルホルムアミド | 15175-77-6 | P | | REACH ANNEX XIV Recommendation |
| 266 | N,N-dimethylformamide | N,N-ジメチルホルムアミド | 33513-42-7 | P | | REACH ANNEX XIV Recommendation |
| 267 | N,N-dimethylformamide | N,N-ジメチルホルムアミド | 114057-15-7 | P | | REACH ANNEX XIV Recommendation |
| 268 | Dinitrotoluene | ジニトロトルエン | 25321-14-6 | P | | Reg.(EC) No 1272/2009 |
| 269 | 2-ethylhexyl 4-methoxycinnamate | 4-メトキシhexyl 2-エチルヘキシル | 5466-77-3 | P | | - |
| 270 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 3-エチル-2-イソペンチル-2-メチル-1,3-オキサゾリジン | 143860-04-2 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 271 | Formamide | ホルムアミド | 75-12-7 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 272 | Furan | フラン | 110-00-9 | P | | REACH SVHC Reg.(EC) No 1272/2008 |
| 273 | 1-Methyl-3-nitro-1-nitrosoguanidine | N-メチル-N'-ニトロ-N-ニトロソグアニジン | 70-25-7 | P | | - |
| 274 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 6465-71-0 | P | | REACH SVHC |
| 275 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 6465-74-3 | P | | REACH SVHC |
| 276 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 6863-24-7 | P | | REACH SVHC |
| 277 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 1987-50-4 | P | | REACH SVHC |
| 278 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 72624-02-3 | P | | REACH SVHC |
| 279 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 1824346-00-0 | P | | REACH SVHC |
| 280 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 1139800-98-8 | P | | REACH SVHC |
| 281 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 911371-07-8 | P | | REACH SVHC |
| 282 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 911371-06-7 | P | | REACH SVHC |
| 283 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 911370-98-4 | P | | REACH SVHC |
| 284 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 861011-60-1 | P | | REACH SVHC |
| 285 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 861010-65-3 | P | | REACH SVHC |
| 286 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 857629-71-1 | P | | REACH SVHC |
| 287 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 854904-93-1 | P | | REACH SVHC |
| 288 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 854904-92-0 | P | | REACH SVHC |
| 289 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 102570-52-5 | P | | REACH SVHC |
| 290 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 100532-36-3 | P | | REACH SVHC |
| 291 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 72861-06-4 | P | | REACH SVHC |
| 292 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 71945-81-8 | P | | REACH SVHC |
| 293 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 33104-11-9 | P | | REACH SVHC |
| 294 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 37872-24-5 | P | | REACH SVHC |
| 295 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 30784-32-8 | P | | REACH SVHC |
| 296 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 30784-31-7 | P | | REACH SVHC |
| 297 | 4-Heptylphenol, branched and linear | 4-ヘプタン-4-イルフェノール | 30784-27-1 | P | | REACH SVHC |
| 298 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 102483-85-2 | P | | REACH SVHC |
| 299 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 109265-67-0 | P | | REACH SVHC |
| 300 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 111720-41-3 | P | | REACH SVHC |
| 301 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 117276-22-9 | P | | REACH SVHC |
| 302 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 127946-28-5 | P | | REACH SVHC |
| 303 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 128049-67-2 | P | | REACH SVHC |
| 304 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 201815-17-0 | P | | REACH SVHC |
| 305 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 279240-32-3 | P | | REACH SVHC |
| 306 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride | - | 634193-83-2 | P | | REACH SVHC |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|---|--------------------------|--------------------------|--|-------------------|--|
| 307 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane- 1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride | — | 743438-36-0 | P | | REACH SVHC |
| 308 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane- 1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride | — | 95327-28-9 | P | | REACH SVHC |
| 309 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane- 1,2-dicarboxylic anhydride, trans-cyclohexane-1,2- dicarboxylic anhydride | — | 97233-90-4 | P | | REACH SVHC |
| 310 | Hexamethylphosphoric-triamide | ヘキサメチルりん酸トリアミド | 680-31-9 | P | | Reg.(EC) No 1272/2008 |
| 311 | Methoxy acetic acid | メトキシ酢酸 | 625-45-6 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 312 | Zirconia Aluminosilicate Refractory Ceramic Fibres | ジルコニアのアルミノケイ酸塩の耐火セラミック繊維 | EU Index 650-017-00-8 | P | | REACH ANNEX XIV recommendation WHO for definition of respirable fiber, and IARC monograph81,2002, for Man-Made vitreous fibers Canada Gazette Vol. 140,No.49-December 9,2006(Canadian challenge) |
| 313 | 2-naphthylammonium chloride | 2-ナフタレンアミン・塩酸塩 | 612-52-2 | P | | REACH ANNEX XV II |
| 314 | Phenol, nonyl-, branched | ノニルフェノール(分岐) | 90481-04-2 | P | | REACH ANNEX XV II |
| 315 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 421555-73-9 | P | 0% | Stockholm convention proposal REACH SVHC |
| 316 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 421555-74-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 317 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 425670-70-8 | P | 0% | Stockholm convention proposal REACH SVHC |
| 318 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 70136-72-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 319 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 866621-50-3 | P | 0% | Stockholm convention proposal REACH SVHC |
| 320 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 910606-39-2 | P | 0% | Stockholm convention proposal REACH SVHC |
| 321 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 911027-68-4 | P | 0% | Stockholm convention proposal REACH SVHC |
| 322 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 911027-69-5 | P | 0% | Stockholm convention proposal REACH SVHC |
| 323 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 928049-42-7 | P | 0% | Stockholm convention proposal REACH SVHC |
| 324 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 108427-54-9 | P | 0% | Stockholm convention proposal REACH SVHC |
| 325 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 108427-55-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 326 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 72033-41-1 | P | 0% | Stockholm convention proposal REACH SVHC |
| 327 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1310480-24-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 328 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 92011-17-1 | P | 0% | Stockholm convention proposal REACH SVHC |
| 329 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1310480-27-3 | P | 0% | Stockholm convention proposal REACH SVHC |
| 330 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1310480-28-4 | P | 0% | Stockholm convention proposal REACH SVHC |
| 331 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 189274-31-5 | P | 0% | Stockholm convention proposal REACH SVHC |
| 332 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 202189-84-2 | P | 0% | Stockholm convention proposal REACH SVHC |
| 333 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 144116-10-9 | P | 0% | Stockholm convention proposal REACH SVHC |
| 334 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1462414-59-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 335 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 153443-35-7 | P | 0% | Stockholm convention proposal REACH SVHC |
| 336 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 213740-81-9 | P | 0% | Stockholm convention proposal REACH SVHC |
| 337 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 341035-71-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 338 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 341548-85-4 | P | 0% | Stockholm convention proposal REACH SVHC |
| 339 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1000597-52-3 | P | 0% | Stockholm convention proposal REACH SVHC |
| 340 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1187817-57-7 | P | 0% | Stockholm convention proposal REACH SVHC |
| 341 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 350836-93-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 342 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1329995-45-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 343 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 1329995-69-8 | P | 0% | Stockholm convention proposal REACH SVHC |
| 344 | ammonium perfluorohexane-1-sulphonate | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 41184-65-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 345 | Perfluorohexane-1-sulphonic acid and its salts | パーフルオロヘキサン-1-スルフォニル酸とその塩 | 41242-12-0 | P | 0% | Stockholm convention proposal REACH SVHC |
| 346 | p-(1,1-dimethylpropyl)phenol | 4-tert-アミルフェノール | 80-46-6 | P | | REACH SVHC |
| 347 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | ジイソヘキシル = フタレート | 71850-09-4 | P | | REACH ANNEX XIV recommendation Reg.(EC) No 1272/2008 |
| 348 | hexachlorobiphenyl (2,2',4,4',6,6'-PCB) | ヘキサクロロビフェニル | 33979-03-2 | P | 0% | Stockholm convention JPN CSCL Class 1 substances Reg.(EC) No 552/2009 |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|--|--------------------------|-------------|--|-------------------|---|
| 349 | Polychlorinated naphthalene; Cyclohexanecarboxylic acid, 4-propyl-, trans- (9CI) | trans-4-プロピルシクロヘキサンカルボン酸 | 38289-27-9 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 350 | hexachloronaphthalene (Halowax 1014) | ヘキサクロロナフタレン | 1335-87-1 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 351 | tetrachloronaphthalene | テトラクロロナフタレン | 1335-88-2 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 352 | octachloronaphthalene | オクタクロロナフタレン | 2234-13-1 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 353 | chloronaphthalene | クロロナフタレン | 25586-43-0 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 354 | dichloronaphthalene | ジクロロナフタレン | 28699-88-9 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 355 | heptachloronaphthalene | ヘプタクロロナフタレン | 32241-08-0 | P | 0% | Stockholm convention CAN Prohibition of Certain Toxic Substances Regulations JPN CSCL Class 1 |
| 356 | polychlorinatedtriphenyl(aroclor5442) | ポリ塩化ナフタレン | 12642-23-8 | P | 0.005% | REACH ANNEX XV II |
| 357 | Benz(a)anthracene | ジベンゾ[a,h]アントラセン | 1718-53-3 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 358 | Chrysene | クリセン | 1719-03-5 | P | | REACH SVHC |
| 359 | Anthracene oil, anthracene paste, distn. Lights | フタル酸ジソブチル | 91995-17-4 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 360 | Anthracene oil, anthracene paste, anthracene fraction | アントラセン油 | 91995-15-2 | P | | REACH SVHC Reg.(EC) 1272/2009 |
| 361 | Anthracene oil, anthracene-low | アントラセン油 | 90640-82-7 | P | | REACH SVHC Reg.(EC) 1272/2010 |
| 362 | Anthracene oil, anthracene paste | アントラセン油 | 90640-81-6 | P | | REACH SVHC Reg.(EC) 1272/2011 |
| 363 | indeno(1,2,3-cd)pyrene | インデノ (1,2,3-cd) ピレン | 193-39-5 | P | 0% | Stockholm convention |
| 364 | Tar acids, coal, crude | タール酸、石炭系 | 65996-85-2 | P | | REACH ANNEX XV II Reg.(EC) 1272.2008 |
| 365 | Creosote oil, acenaphthene fraction; wash oil | クレオソートオイル、アセナフテン留分 | 90640-84-9 | P | | REACH ANNEX XV II Reg.(EC) 1272.2008 |
| 366 | Phenolphthalein | フェノールフタレイン | 77-09-8 | P | | REACH ANNEX XV II Reg.(EC) 1272.2008 |
| 367 | Phenolphthalein | フェノールフタレイン | 390417-24-0 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 368 | Phenolphthalein | フェノールフタレイン | 467-29-8 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 369 | Phenolphthalein | フェノールフタレイン | 546094-13-7 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 370 | Phenolphthalein | フェノールフタレイン | 57214-20-7 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 371 | Methyloxirane (Propylene oxide) | プロピレンオキシド | 16033-71-9 | P | | REACH SVHC Reg.(EC) 1272/2008 |
| 372 | 1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)- | — | 117933-89-8 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 373 | 1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | — | 676367-02-5 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 374 | 1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | — | 676367-03-6 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 375 | 1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | — | 676367-04-7 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 376 | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis- | — | 676367-05-8 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 377 | 1,3-Dioxane, 2-[(1S,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | — | 676367-06-9 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 378 | 1,3-Dioxane, 2-[(1R,2S)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | — | 676367-08-1 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 379 | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | — | 676367-09-2 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 380 | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, cis-rel- | — | 343934-04-3 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 381 | 1,3-Dioxane, 2-[(1R,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans-rel- | — | 343934-05-4 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 382 | 1,3-Dioxane, 2-(2,4-dimethyl-3-cyclohexen-1-yl)-5-methyl-5-(1-methylpropyl)- | — | 186309-28-4 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 383 | 1,3-Dioxane, 2-[(1S,2R)-2,4-dimethyl-3-cyclohexen-1-yl]-5-methyl-5-(1-methylpropyl)-, trans- | — | 676367-07-0 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 384 | Sodium peroxometaborate | 過ほう酸ナトリウム | 7632-04-4 | P | | REACH ANNEX XIV Recommendation |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P#:Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件, 法規定, 特定条件) |
|-----|--|--|---------------------------|--|--|--|
| 385 | perboric acid, sodium salt | 過ホウ酸ナトリウム塩 | 11138-47-9 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 386 | Sodium perborate | 過ホウ酸ナトリウム塩 | 15120-21-5 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 387 | Sodium perborate | 過ホウ酸ナトリウム塩 | 12040-72-1 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 388 | Sodium perborate | 過ホウ酸ナトリウム塩 | 10332-33-9 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 389 | Sodium perborate | 過ホウ酸ナトリウム塩 | 10486-00-7 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 390 | Sodium perborate | 過ホウ酸ナトリウム塩 | 125022-34-6 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 391 | Sodium perborate | 過ホウ酸ナトリウム塩 | 13517-20-9 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 392 | Sodium perborate | 過ホウ酸ナトリウム塩 | 37244-98-7 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 393 | Sodium perborate | 過ホウ酸ナトリウム塩 | 90568-23-3 | P | | RECH SVHC REACH ANNEX XIV Recommendation |
| 394 | Carbon-disulphide | 炭素ジスルフィド | 75-15-0 | P | | CoRAP |
| 395 | Silicic acid, barium salt, lead-doped | フタル酸シイソブチル(DIBP) | 68784-75-8 | P | | REACH SVHC |
| 396 | [TEGDME, triglyme] 1,2-bis(2-methoxyethoxy)ethane | トリエチレングリコールジメチルエーテル | 112-49-2 | P | | REACH SVHC Reg(EC) 1272/2008 |
| 397 | tetrabromophthalic anhydride | テトラブロモフタル酸無水物 | 632-79-1 | P | | REACH PACT |
| 398 | o-Toluidine | o-トルイジン | 95-53-4 | P | | REACH SVHC Reg(EC) 1272/2008 |
| 399 | Tributylamine | トリブチルアミン | 102-82-9 | P | | JPN Poisonous and Deleterious Substances Control Law |
| 400 | Trichlorobenzene all isomers | トリクロロベンゼン類 | 12002-48-1 | P | 0% | Stockholm convention |
| 401 | Dibutyltin S,S'-bis(isooctyl mercaptoacetate) Acetic acid, 2,2'-[[(dimethylstannylene)bis(thio)]bis-, 1,1'-diisooctyl ester) | ジメチルビス[[[(6-メチルヘプチルオキシカルボニル)メチル]チオ]スタンナン | 26636-01-1 | P | | (EU) No 276/2010 REACH ANNEX XV II |
| 402 | Cadmium sulphate | 硫酸マンガ(II)・水和物 | 15244-3-6 | P | 0.01% (0,002% for portable batteries) | See " Cadmium and its compounds, all members" REACH SVHC |
| 403 | 1,4-Dichlorobenzene | 1,4-ジクロロベンゼン | 106-46-7 | P | | REACH Annex XVII |
| 404 | technical 1,2,3,4,5,6-hexachlorocyclohexane (HCH mixed isomers) | ヘキサクロロスクロヘキサン | 608-73-1 | P | - | Stockholm convention Reg. (EC) No 1272/2008 GefStoffV with Annex IV Nr. 5 JPN CSDL Class 1 substance |
| 405 | Zirconia Aluminosilicate Refractory Ceramic Fibres | - | EU Index 650- 017-00-8 | P | | REACH Annex XIV recommendation World Health Organization for definition of respirable fiber, and IARC monograph 81,2002,for Man-Made vitreous fibers Canada Gazette Vol. 140, No. 49 - December 9, 2006 (Canadian Challenge) |
| 406 | 1,3-dichloro-1,1,2,2,3,3-hexafluoropropane | 1,3-ジクロロヘキサフルオロプロパン | 662-01-1 | P | | EU-R 2009/1005 EPA ODP class 1 |
| 407 | 2-chloro-1,1,1,2,3,3,3-heptafluoropropane | 2-クロロ-1,1,1,2,3,3,3-ヘプタフルオロプロパン | 76-18-6 | P | | EU-R 2009/1005 EPA ODP class 1 |
| 408 | Dichlorohexafluorocyclobutane | 1,2-ジクロロヘキサフルオロシクロブタン | 356-18-3 | P | | EU-R 2009/1005 EPA ODP class 1 |
| 409 | Chloroheptafluorocyclobutane | - | 377-41-3 | P | | EU-R 2009/1005 EPA ODP class 1 |
| 410 | Acids generated from chromium trioxide and their oligomers | - | - | P | - | REACH Annex XIV Reg. (EC) No 1272/2008 |
| 411 | Oligomers of chromic acid and dichromic acid | - | - | P | - | REACH Annex XIV Reg. (EC) No 1272/2008 |
| 412 | Furfuryl-alcohol | フルフリルアルコール | 98-00-0 | P | | US California Prop 65 |
| 413 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl | ビス(4-(4-ジメチルアミノフェニル)(4-メチルアミノフェニル)メタノール | 561-41-1 | P | | REACH SVHC |
| 414 | α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) | α,α-ビス[4-(ジメチルアミノ)フェニル]-4-(フェニルアミノ)-1-ナフタレンメタノール | 6786-83-0 | P | | REACH SVHC |
| 415 | 1,1 Dichloroethylene | 1,1-ジクロロエチレン | 75-35-4 | P | | REACH Annex XVII Reg. (EC) No 1272/2008 Montreal Protocol; EU Regulation (EC Regulation 2037/2000); US EPA ODS |
| 416 | 1,1,2,2 Tetrachloroethane | 1,1,2,2-テトラクロロエタン | 79-34-5 | P | | REACH Annex XVII |
| 417 | Pentachloroethane | ペンタクロロエタン | 76-01-7 | P | | REACH Annex XVII |
| 418 | 1,2,4 Trichlorobenzene | 1,2,4-トリクロロベンゼン | 120-82-1 | P | | REACH SVHC proposal, REACH Annex XVII |
| 419 | Dicofol | ジコホル | 115-32-2 | P | | Stockholm convention Reg. (EC) No 1272/2008 JPN CSDL Class 1 substances |
| 420 | Tribromodifluoropropane | ジブロモトリフルオロプロパン | 70192-80-2 | P | | Montreal Protocol; EU-R 2009/1005; |
| 421 | 1,2-dichloro-2-fluoropropane | 1,2-ジクロロ-2-フルオロプロパン | 420-97-3 | P | | Montreal Protocol; EU-R 2009/1005; |
| 422 | 2-chloro-1,1,1,3,3,3-hexafluoropropane | 1,1,1,3,3,3-ヘキサフルオロ-2-クロロプロパン | 431-87-8 | P | | Montreal Protocol; EU-R 2009/1005; |
| 423 | t-Dodecanethiol | tert-ドデシルメルカプタン | 25103-58-6 | P | | - |
| 424 | Chlordecone | クロルデコン | 143-50-0 | P | - | Stockholm convention Reg. (EC) No 1272/2008 |
| 425 | HBFC124B1(Bromotetrafluoroethane) | テトラフルン | 124-72-1 | P | - | Vienna Treaties |
| 426 | HBFC225B2(Dibromopentafluoropropane) | プロモヘキサフルオロプロパン | 431-78-7 | P | - | Vienna Treaties |
| 427 | HBFC226B1(Bromohexafluoropropane) | 2-ブロモ-1,1,1,3,3,3-ヘキサフルオロプロパン | 2252-79-1 | P | - | Vienna Treaties |
| 428 | HBFC253B1(Bromotrifluoropropane) | プロモトリフルオロプロパン | 421-46-5 | P | - | Vienna Treaties |
| 429 | HBFC3302(Dibromotrifluoropropane) | ジブロモトリフルオロプロパン | 70192-83-5 | P | - | Vienna Treaties |
| 430 | 1-Chloro-1-fluoroethane (HCFC-151) | クロロフルオロエタン(HCFC-151) | 1615-75-4 | P | - | Vienna Treaties |
| 431 | HCFC221 (Hexachlorofluoropropane) | ヘキサクロロフルオロプロパン(HCFC-221) | 422-40-2 | P | - | Vienna Treaties |
| 432 | HCFC222 (Pentachlorodifluoropropane) | ペンタクロロジフルオロプロパン(HCFC-222) | 422-49-1 | P | - | Vienna Treaties |
| 433 | HCFC223 (Tetrachlorotrifluoropropane) | テトラクロロトリフルオロプロパン(HCFC-223) | 431-81-2 | P | - | Vienna Treaties |
| 434 | HCFC231 (Pentachlorofluoropropane) | ペンタクロロフルオロプロパン(HCFC-231) | 421-94-3 | P | - | Vienna Treaties |
| 435 | HCFC232 (Tetrachlorodifluoropropane) | テトラクロロジフルオロプロパン(HCFC-232) | 460-89-9 | P | - | Vienna Treaties |

Table2 List of Voluntarily-Prohibited Substances Not Covered by GADSL

・P# :Prohibited substance.However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.

| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|---|---|-------------|--|-------------------------------------|--|
| 436 | HCFC233 (Trichlorotrifluoropropane) | トリクロロトリフルオロプロパン(HCFC-233) | 421-99-8 | P | - | Vienna Treaties |
| 437 | HCFC241 (Tetrachlorofluoropropane) | テトラクロロフルオロプロパン(HCFC-241) | 666-27-3 | P | - | Vienna Treaties |
| 438 | HCFC242 (Trichlorodifluoropropane) | トリクロロジフルオロプロパン(HCFC-242) | 1112-13-6 | P | - | Vienna Treaties |
| 439 | HCFC244 (Chlorotetrafluoropropane) | クロロテトラフルオロプロパン(HCFC-244) | 421-75-0 | P | - | Vienna Treaties |
| 440 | HCFC253 (Chlorotrifluoropropane) | クロロトリフルオロプロパン(HCFC-253) | 421-47-6 | P | - | Vienna Treaties |
| 441 | HCFC262 (Chlorodifluoropropane) | クロロジフルオロプロパン(HCFC-262) | 420-99-5 | P | - | Vienna Treaties |
| 442 | CFC112 (Tetrachlorodifluoroethane) | テトラクロロジフルオロエタン | 28605-74-5 | P | - | Vienna Treaties |
| 443 | CFC212 (Hexachlorodifluoropropane) | ヘキサクロロジフルオロプロパン(CFC-212) | 661-96-1 | P | - | Vienna Treaties |
| 444 | CFC213 (Pentachlorotrifluoropropane) | ペンタクロロトリフルオロプロパン(CFC-213) | 1652-89-7 | P | - | Vienna Treaties |
| 445 | Other Brominated Flame Retardants | その他の臭素化難燃剤 | - | D/P | Biocide usage: "-" | Reg. (EU) No 528/2012 Stockholm convention |
| 446 | Aldrin | アルドリン | 309-00-2 | P | - | Reg. (EC) No 1272/2008 JPN CSCL Class 1 substances |
| 447 | Dieldrin | ディルドリン | 60-57-1 | P | - | Stockholm convention Reg. (EC) No 1272/2008 JPN CSCL Class 1 substances |
| 448 | Endrin | エンドリン | 72-20-8 | P | - | Stockholm convention Reg. (EC) No 1272/2008 JPN CSCL Class 1 substances |
| 449 | DichlorodiPhenyltrichloroethane[DDT] | p,p'-ジクロロジフェニルトリクロロエタン | 50-29-3 | P | - | Stockholm convention Reg. (EC) No 1272/2008 JPN CSCL Class 1 substances |
| 450 | Chlordane | クロルデン(unspecified isomers) | 57-74-9 | P | - | Stockholm convention Reg. (EC) No 1272/2008 JPN CSCL Class 1 substances |
| 451 | Heptachlor | ヘプタクロル | 76-44-8 | P | - | Stockholm convention Reg. (EC) No 1272/2008 |
| 452 | Toxaphene | カンフェクロル | 8001-35-2 | P | - | Stockholm conventionReg. (EC) No 1272/2008JPN CSCL Class 1 substances |
| 453 | Hexachlorocyclohexane | α-ヘキサクロシクロヘキサン | 319-84-6 | P | - | Stockholm conventionReg. (EC) No 1272/2008JPN CSCL Class 1 substances |
| 454 | Pentachlorobenzenethiol | ペンタクロロベンゼンチオール | 133-49-3 | P | 0.1% | TSCA Section 6(h) https://www.epa.gov/newsreleases/epa-acts-new-chemical-law-fast-track-five-chemicals-0 |
| 455 | Distillates(Coal tar), Heavy oils | - | 90640-86-1 | P | 0.1% | - |
| 456 | Distillates(Coal tar), Pitch Distr. | - | 92061-94-4 | P | 0.1% | - |
| 457 | Distillates(Coal tar), Heavy oils, Pyrene fraction | - | 91995-42-5 | P | 0.1% | - |
| 458 | Distillates(Coal tar), Pitch, Pyrene fraction | - | 91995-52-7 | P | 0.1% | - |
| 459 | Endosulfan | エンドスルファン | 115-29-7 | P | - | Stockholm convention |
| 460 | 1-bromopropane | 1-ブロモプロパン | 106-94-5 | P | 0.01% or Not intentionally added | REACH Annex XIV Reg. (EC) No 1272/2008 |
| 461 | 2-methoxy-1-propanol acetate | 2-メトキシ-1-プロパノールアセタート | 70657-70-4 | P | 0.1% | Reg. (EC) No 1272/2008 |
| 462 | (4-chlorophenyl)(cyclopropyl)methanone O-(4-nitrobenzyl)oxime | 4-クロロフェニル-(シクロプロピル)メタン-O-(4-ニトロベンジル)オキシム | 94097-88-8 | P | 0% | http://www.canlii.org/en/ca/laws/regu/sor-2012-285/latest/sor-2012-285.html |
| 463 | n-Hexane | ノルマル-ヘキサン | 110-54-3 | D/P | 5.0% | US California Prop 65 CoRAP |
| 464 | TBBA carbonate oligomer, phenoxy end capped | BC-52テトラブROMビスフェノールA | 94334-64-2 | P | 0.1% | - |
| 465 | Antimony oxide (Sb2O3), mixed with arsenic oxide (As2O3) | 酸化アンチモン(Sb2O3)と酸化ヒ素(As2O3)の混合物 | 68951-38-2 | D/P | 0.1% | REACH Annex XVII |
| 466 | Arsenate, dimethyl, sodium | カコジル酸ナトリウム三水和物 | 6131-99-3 | D/P | 0.1% | REACH Annex XVII |
| 467 | Arsenous trifluoride | 三フッ化ヒ素 | 7784-35-2 | D/P | 0.1% | REACH Annex XVII |
| 468 | Cyclohexane | シクロヘキサン | 110-82-7 | D/P | 0.1% | REACH Annex XVII |
| 469 | Further Arsenic compounds | その他のヒ素化合物 | - | D/P | Biocide usage: "-" | Reg. (EU) No 528/2012 |
| 470 | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues | - | - | D/P | Biocide usage: "-" | Reg. (EU) No 528/2012 |
| 471 | Vinyl chloride | 塩化ビニルモノマー | 75-01-4 | P | - | - |
| 472 | 1,1,2,2,3-Pentafluoropropane | 1,1,2,2,3-ペンタフルオロプロパン(HFC-245ca) | 679-86-7 | P | - | - |
| 473 | Endosulfan sulfate | エンドスルファンサルフェート | 1031-07-8 | P | - | Stockholm convention |
| 474 | Beta-endosulfan(hexachloro 5-norbornene-2,3-demethanol, cyclic sulfite,endo-) | β-ベンゾエピン | 33213-65-9 | P | - | Stockholm convention |
| 475 | Endosulfan | α-ベンゾエピン | 959-98-8 | P | - | Stockholm convention |
| 476 | 2-[4-(2,4,4-Trimethylpentan-2-yl)phenoxy]ethanol | 2-[2-[4-(1,1,3,3-テトラメチルブチル)フェノキシ]エトキシ]エタノール | 2315-61-9 | P | 0.01 or Not intentionally added | REACH Annex XIV |
| 477 | Oxirane, 2-methyl-, polymer with oxirane, bis(2-oxiranylmethyl) ether | エポキシ酸ナトリウム | 9081-99-6 | P | 0.01 or Not intentionally added | REACH Annex XIV |
| 478 | 20-[4-(2,4,4-Trimethylpentan-2-yl)phenoxy]-3,6,9,12,15,18-hexaoxaicosan-1-ol | 20-(4-tert-オクチルフェノキシ)-3,6,9,12,15,18-ヘキサオキサイコサン-1-オール | 2497-59-8 | P | 0.01 or Not intentionally added | REACH Annex XIV |
| 479 | Titanium dioxide | 酸化チタン(IV) | 13463-67-7 | D/P | Biocide usage: "-" | Reg. (EU) No 528/2012 |
| 480 | Lead, bis(octadecanoato)dioxotri- | ジオキソビス(ステアリン酸)三鉛 | 12565-18-3 | P | 0.1* or ELV exemption | * For EU, further restrictions conditions set out in REACH restriction entry n°63 |
| 481 | Dichlorodiphenyltrichloroethane | o,p'-ジクロロジフェニルトリクロロエタン | 789-02-6 | P | 0.1% | http://www.canlii.org/en/ca/laws/regu/sor-2012-285/latest/sor-2012-285.html |
| 482 | Tris (4-isopropylphenyl) phosphate | リン酸トリス(P-クメニル) | 26967-76-0 | P | 0% | TSCA Section 6(h) https://www.epa.gov/newsreleases/epa-acts-new-chemical-law-fast-track-five-chemicals-0 |
| 483 | Tris (4-isopropylphenyl) phosphate | リン酸トリス[4-(1-メチルエチル)フェニル] | 2502-15-0 | P | 0% | TSCA Section 6(h) https://www.epa.gov/newsreleases/epa-acts-new-chemical-law-fast-track-five-chemicals-0 |
| 484 | Benzene,1,2,3-tribromo-4-(2,4,5-tribromophenoxy)-; 2,2',3,4,4',5'-Hexabromodiphenylether; BDE 138; PBDE 138 | 2,2',3,4,4',5'-ヘキサブロモ[1,1'-オキシビスベンゼン]。 | 182677-30-1 | P | - | GB/T 30512 |
| 485 | Salts from 3,3'-Dimethoxybenzidine | - | - | P | 0.1% | Canada In Toxic Substances Regulation 2005 |

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| No. | Substance (物質名) | 物質名(和名) *ミツバ追記 | CAS-No. | Mitsuba's Classification (ミツバ管理区分) | Threshold (閾値) | Source (Legal requirements, regulations), specified condition (法的必要条件、法規定、特定条件) |
|-----|---|--------------------------------------|--------------------------|--|--------------------|--|
| 486 | Quaternary ammonium compounds (benzylalkyldimethyl (alkyl from C8-C22, saturated and unsaturated, tallow alkyl, coco alkyl, and soya alkyl) chlorides, bromides or hydroxides)/BKC | - | - | D/P | Biocide usage: "-" | Reg. (EU) No 528/2012 |
| 487 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one | 3-ベンジリデンボルナン-2-オン | 15087-24-8 | P | 0.1% | REACH SVHC |
| 488 | Zirconia Aluminosilicate Refractory Ceramic Fibres | ジルコニアアルミノケイ酸塩耐火セラミック繊維 | - | P | 0.1% | See 1st line of "Mineral fibres, all members" Recommendation Annex XIV |
| 489 | Benz(a)anthracene | 1,2-ベンズアントラセン-D12 | 1718-53-2 | P | 0.1% | REACH SVHC Reg. (EC) No 1272/2008 |
| 490 | Acenaphthylene | アセナフチレン | 208-96-8 | P | 0.1% | GB 30512 draft |
| 491 | Acenaphthene | アセナフテン | 83-32-9 | P | 0.1% | GB 30512 draft |
| 492 | Fluorene | フルオレン | 86-73-7 | P | 0.1% | GB 30512 draft |
| 493 | Pyrene D10 | ピレン-D10 | 1718-52-1 | P | 0.1% | REACH SVHC |
| 494 | Fluoranthene | フルオランテン-D10 | 93951-69-0 | P | 0.1% | REACH SVHC |
| 495 | Tricyclohexyl Tin Compounds | トリシクロヘキシルスズ化合物 | EU Index 050-012-00-5 | P | 0.1% | REACH Annex XVII |
| 496 | Triethyl Tin Compounds | トリエチルスズ化合物 | EU Index 050-006-00-2 | P | 0.1% | REACH Annex XVII |
| 497 | Trihexyl Tin Compounds | トリヘキシルスズ化合物 | EU Index 050-010-00-4 | P | 0.1% | REACH Annex XVII |
| 498 | Trimethyl Tin Compounds | トリメチルスズ化合物 | EU Index 050-005-00-7 | P | 0.1% | REACH Annex XVII |
| 499 | Trioctyl Tin Compounds | トリオクチルスズ化合物 | EU Index 050-013-00-0 | P | 0.1% | REACH Annex XVII |
| 500 | Tripentyl Tin Compounds | トリペンチルスズ化合物 | EU Index 050-009-00-9 | P | 0.1% | REACH Annex XVII |
| 501 | Triphenyl Tin Compounds | トリフェニルスズ化合物 | EU Index 050-011-00-X | P | 0.1% | REACH Annex XVII |
| 502 | Tripropyl Tin Compounds | トリプロピルスズ化合物 | EU Index 050-007-00-8 | P | 0.1% | REACH Annex XVII |
| 503 | Phenol, 4-tert-nonyl- | - | 58865-77-3 | P | 0.1% | REACH Annex XVII |
| 504 | Phenol, 4-(1,1,3-trimethylhexyl)- | - | 174305-83-0 | P | 0.1% | REACH Annex XVII |
| 505 | Phenol, 4-(1,3-dimethyl-1-propylbutyl)- | - | 142731-65-5 | P | 0.1% | REACH Annex XVII |
| 506 | Phenol, 4-(1,2,5-trimethylhexyl)- | - | 142731-55-3 | P | 0.1% | REACH Annex XVII |
| 507 | 4-(3-ethylheptan-2-yl)phenol | 4-(2-エチル-1-メチルヘキシル)フェノール | 186825-39-8 | P | 0.1% | REACH Annex XVII |
| 508 | 4-(1,1,5-Trimethylhexyl)phenol | - | 521947-27-3 | P | 0.1% | REACH Annex XVII |
| 509 | Isononylphenol | イソノニルフェノール | 11066-49-2 | P | 0.1% | REACH Annex XVII |
| 510 | Phenol, 4-nonyl-, phosphite (3:1) | トリス(4-ノニルフェノキシ)ホスフィン | 3050-88-2 | P | 0.1% | REACH Annex XVII |
| 511 | Kanechlor 500 | クロロ-1,1-ビフェニル | 27323-18-8 | P | - | EU POP Regulation |
| 512 | 4,4'-dichlorobiphenyl | 4,4'-ジクロロ-1,1'-ビフェニル | 2050-68-2 | P | - | EU POP Regulation |
| 513 | 2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl | デカクロロビフェニル | 2051-24-3 | P | - | EU POP Regulation |
| 514 | 2-chlorobiphenyl | 2-クロロビフェニル | 2051-60-7 | P | - | EU POP Regulation |
| 515 | 3-chlorobiphenyl | 3-クロロ-1,1'-ビフェニル | 2051-61-8 | P | - | EU POP Regulation |
| 516 | 4-chlorobiphenyl | 4-クロロビフェニル | 2051-62-9 | P | - | EU POP Regulation |
| 517 | dichlorobiphenyl | ジクロロビフェニル | 25512-42-9 | P | - | EU POP Regulation |
| 518 | 2,4'-dichlorobiphenyl | 2,4'-ジクロロ[1,1'-ビフェニル] | 34883-43-7 | P | - | EU POP Regulation |
| 519 | 2,4,4'-trichlorobiphenyl | 2,4,4'-トリクロロ[1,1'-ビフェニル] | 7012-37-5 | P | - | EU POP Regulation |
| 520 | Sodium chromate tetrahydrate | クロム酸二ナトリウム・四水和物 | 10034-82-9 | P | - | EU POP Regulation |
| 521 | 2,3',4,4',6-PENTABROMODIPHENYL ETHER | 2,3',4,4',6-ペンタブロモジフェニルエーテル標準液 | 189084-66-0 | P | - | EU POP Regulation |
| 522 | 2,2',3,4',4-PENTABDE | 2,2',3,4,4'-ペンタブロモジフェニルエーテル標準液 | 182346-21-0 | P | - | EU POP Regulation |
| 523 | 2,3',4',6-TETRABROMODIPHENYL ETHER | 2,6-ジブロモフェニル3,4-ジプロモフェニルエーテル | 189084-62-6 | P | - | EU POP Regulation |
| 524 | 2,3',4,4'-Tetrabromodiphenyl ether | 2,3',4,4'-テトラブロモジフェニルエーテル標準液 | 189084-61-5 | P | - | EU POP Regulation |
| 525 | 3,3',4,4'-TETRABROMODIPHENYL ETHER | 3,3',4,4'-テトラブロモジフェニルエーテル標準液 | 93703-48-1 | P | - | EU POP Regulation |
| 526 | 2-(2-[4-(3',6'-Dimethyl-3'-heptyl)phenoxy]ethoxy)ethanol | 4-(3,6-ジメチル-3-ヘプチル)フェノールジエトキシラート 溶液 | 1119449-38-5 | P | - | EU POP Regulation |
| 527 | 4-(3',6'-Dimethyl-3'-heptyl)phenol Monoethoxylate | 4-(3,6-ジメチル-3-ヘプチル)フェノールモノエトキシラート 溶液 | 1119449-37-4 | P | - | EU POP Regulation |
| 528 | 1-Decanaminium, N-decyl-N,N-dimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-1-octanesulfonic acid (1:1) | - | 251099-16-8 | P | - | EU POP Regulation |
| 529 | Diundecyl phthalate, branched and linear | 3-1307, ジウンデシル (分枝、直鎖) = フタラート | 85507-79-5 | D | - | Included in list of substances under REACH PACT assessment |
| 530 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts, all members | - | - | P | - | Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 531 | PFNA, Perfluorononan-1-oic-acid and its sodium and ammonium salts | - | - | D/P | - | Substance group was added to REACH Candidate List in December 2015 --> immediate duty for reporting Reg. (EC) No 1907/2006 (REACH Candidate List) |
| 532 | MOAH, MOSH contained in mineral oil | 鉱物油中MOAH, MOSH | - | D/P | | フランス 資源浪費対策および循環型経済に関する法律 [France] Law No. 2020-105 on Waste Reduction and Circular Economy |

Table 3 Criteria for Packaging Substances

The target of this standard is packaging materials, etc. (packaging materials and protective materials)

•Restricted substances contained in packaging materials, etc. shall satisfy the packaging material standards shown in the table below.

| GADSL No. | Substance | 物質名 (和名) | | CAS-No. | Criteria for Packaging | Major Relevant Laws and Regulations(reference) |
|-----------|---|--|--|------------------------|--|--|
| 10 | 4-Aminobiphenyl and its salts, all members | 4-アミノビフェニルとその塩(全て) | | 92-67-1, etc. | Prohibited from use >0.1wt% | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law |
| 19 | Asbestos Fibers, all members | アスベスト繊維(全て) | | 77536-66-4, etc. | Prohibited from use >0wt% (including unintentional use) | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC) National laws, Turkish law, Australian law |
| 20 | Asbestos Minerals, all members | アスベスト, 鉱物由来(全て) | | 1332-21-4, etc. | Prohibited from use >0wt% (including unintentional use) | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Japanese law (OSHA), Turkish law, Australian law |
| 23 | Benzene | ベンゼン | | 71-43-2 only | Prohibited from use ≥0.1wt% | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law |
| 38 | Benzidine and its salts, all members | ベンジジンとその塩(全て) | | 92-87-5, etc. | Prohibited from use >0.1wt% | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law Canadian law (SOR/SOR/2005-41) Japanese law (OSHA) |
| 46 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 2-(2H-ベンゾトリアゾール-2-イル)-4,6-ジ-tert-ペンチルフェノール [別名: UV-328] | | 25973-55-1 only | Prohibited from use >0wt% | POPs Treaty EU POPs (prediction) Singapore POPs |
| 50 | Biocidal coatings / biocidal additives, selected | バイオサイド化合物のコーティング及び添加物 (指定物質) | | 624-49-7 | Prohibited from use >0.00001wt% | Reg. (EU) No 528/2012 BPR judgement shall refer page 'Related regulations "EU BPR"'. Canadian law (SOR/SOR/2005-41) Japanese law (OSHA) |
| | | | | 73790-28-0, etc. | Prohibited from use as a biocide in specific PT | |
| | | | | | Allowed to use as a biocide in specific PT | |
| | | | | - | To use as a biocide in specific PT, the substance must have been authorized. Allowed to use as a non-biocidal Prohibited from use as a biocide in PT7, 8, 9 | |
| 54 | Bis(chloromethyl) ether (BCME) | ビス(クロロメチル)エーテル(BCME) | | 542-88-1 only | Prohibited from intentional use | Canadian law (SOR/SOR/2005-41) Japanese law (OSHA) |
| 61 | Cadmium and its compounds, all members | カドミウムとその化合物(全て) | | 7440-43-9, etc. | Prohibited from Intentional Use. (In case of unintentional use, the sum of lead, cadmium, mercury and chromium (VI) present in packaging or packaging components are prohibited from use >0.01wt% (100ppm) | Packaging Directive 94/62/EC California State Health and Safety Code 25214.11 Rhode Island state law |

Table 3 Criteria for Packaging Substances

The target of this standard is packaging materials, etc. (packaging materials and protective materials)

•Restricted substances contained in packaging materials, etc. shall satisfy the packaging material standards shown in the table below.

| GADSL No. | Substance | 物質名 (和名) | | CAS-No. | Criteria for Packaging | Major Relevant Laws and Regulations(reference) |
|-----------|--|---|---|---|--|--|
| 62 | Chlorinated hydrocarbons, selected | 塩素化炭化水素(指定物質) | | 71-55-6 only | Prohibited from use >0wt% (including unintentional use) | Montreal Protocol; (EU)2024/590 |
| 63 | Chlorinated or brominated Dibenzo-p-dioxins or Dibenzofurans, all members | 塩素化及び臭素化ジベンゾダイオキシンあるいはジベンゾフラン (全て) | | 67562-39-4, etc. | Prohibited from intentional use | POPs convention ChemVerbotsV |
| 64 | Chlorinated Paraffins, Short & Medium Chain Length (SCCP, MCCP), all members: Note that the use of specific CAS numbers for these substances differs throughout the world, or CAS numbers may be used that are not specific to chain length. Therefore, please consult your MSDS and supplier to determine product- | 直鎖塩素化パラフィン(短鎖,中鎖)(全て) 注: CAS No.で定義されている以外の鎖長の物質を含む場合があるため、MSDSの確認及びサプライヤへの問い合わせを行って下さい。 | 非分岐の短鎖型塩素化パラフィン | 108171-26-2, 85535-84-8, 71011-12-6 | Prohibited from use >0wt% (including unintentional use) | EU Regulation 519/2012 (EU)2019/1021 Canadian law POPs convention Japanese law (CSCL) (EU) 2015/2030 |
| | | | 非分岐の中鎖型塩素化パラフィン ならびに その他: 短鎖、中鎖を持つ物、持たない物 | 85535-85-9 84082-38-2, etc. | Exempt, but prohibited from use>0wt% (including unintentional use) when short chain chlorinated paraffin (C10-13) is contained. | |
| 66 | Chromium(VI)-salts, all members | 六価クロム塩(全て) | | 14977-61-8, etc. | Prohibited from Intentional Use. (In case of unintentional use, the sum of lead, cadmium, mercury and chromium (VI) present in packaging or packaging components are prohibited from use >0.01wt% (100ppm) | Packaging Directive 94/62/EC California State Health and Safety Code 25214.11 Rhode Island state law |
| 74 | Cyclododecane, hexabromo- (HBCD) | ヘキサブロモシクロドデカン(HBCD) | | 25637-99-4, etc. | Prohibited from intentional use (Also prohibited from use >0.01wt% in case of unintentional use) | POPs convention Japanese law (CSCL) (EU) 2019/1021 |
| 92 | Diorganotin compounds, selected | 二置換有機スズ化合物(指定物質) | ジブチルスズ化合物(全て) | 3026-81-1, etc. | By weight of tin in the articles or the parts; Prohibited from use >0.1wt% | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC) , Turkish law See IMDS FAQ for calculation method (https://public.mdsystem.com/documents/10906/16811/faq_organo_tin_compounds_en-2020.pdf/0cd0633f-ddf9-44d5-8b13-8fc0d786c39c) |
| 102 | Dodecachloropentacyclo 1, 3, 4-Metheno-1H-cyclobuta(cd)pentalene, Mirex | ドデカクロロペンタシクロ [5.3.0.0(2,6).0(3,9).0(4,8)]デカン (別名: マイレックス) | | 2385-85-5 only | Prohibited from intentional use | POPs convention Canadian law (SOR/SOR/2005-41) Japanese law (CSCL) |

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•Restricted substances contained in packaging materials, etc. shall satisfy the packaging material standards shown in the table below.

| GADSL No. | Substance | 物質名 (和名) | CAS-No. | Criteria for Packaging | Major Relevant Laws and Regulations(reference) |
|-----------|---|---|---|--|---|
| 103 | <u>1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene, all members (Dechlorane Plus)</u> | <u>1,2,3,4,7,8,9,10,13,13,14,14-ドデカクロロ-1,4,4a,5,6,6a,7,10,10a,11,12,12a-ドデカヒドロ-1,4;7,10-ジメタノジベンゾ [a,e] シクロオクテン, (全て) (デクロランプラス)</u> | <u>13560-89-9</u> <u>135821-74-8</u> <u>135821-03-3</u> | Prohibited from use >0wt% | POPs Treaty EU POPs (prediction) Singapore POPs |
| 111 | Ethyl-/ Methyl-Glycols and their Acetates | エチレングリコールモノ(エチル/メチル)エーテルおよびそのアセテート類 | 109-86-4 only | Prohibited from intentional use | Canadian law (SOR/SOR/2005-41) |
| 120 | Hexachlorobenzene(HCB) | ヘキサクロロベンゼン (HCB) | 118-74-1 only | Prohibited from intentional use. In case of unintentional use, prohibited from use >0.001 wt% | Canadian law (SOR/SOR/2005-41) Japanese law (CSCL) |
| 121 | Hexachloro-1,3-butadiene (HCBD) | ヘキサクロロ-1, 3-ブタジエン (HCBD) | 87-68-3 only | Prohibited from intentional use | Canadian law (SOR/SOR/2005-41) (EU)2019/1021, US Federal law |
| 127 | Hydrobromofluorocarbons (HBFC's), all members | ハイドロフロモフルオロカーボン(HBFC's)(全て) | 75-82-1, etc. | Prohibited from intentional use | Montreal Protocol; (EU)2024/590 |
| 128 | Hydrochlorofluorocarbons (HCFC's), all members | ハイドロクロロフルオロカーボン(HCFC's)(全て) | 812-04-4, etc. | Prohibited from intentional use | Montreal Protocol; (EU)2024/590 |
| 129 | Hydrofluorocarbons (HFC's), all members | ハイドロフルオロカーボン (HFC's)(全て) | 2252-84-8, etc. | Prohibited from intentional use | (EU)2024/573 Danish law |
| 134 | Isopropylphenyl phosphate (PIP) | 2,2-ビス [3,5-ジプロモ-4- (2,3-ジプロモプロポキシ) フェニル] プロパン | 68937-41-7 only | Prohibited from intentional use | US Federal law |
| 135 | Lead and its compounds, all members | 鉛とその化合物(全て) | 7439-92-1, etc. | Prohibited from Intentional Use. (In case of unintentional use, the sum of lead, cadmium, mercury and chromium (VI) present in packaging or packaging components are prohibited from use >0.01wt% (100ppm) | Packaging Directive 94/62/EC California State Health and Safety Code 25214.11 Rhode Island state law |

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| GADSL No. | Substance | 物質名 (和名) | CAS-No. | Criteria for Packaging | Major Relevant Laws and Regulations(reference) |
|-----------|--|-------------------------------------|--------------------------|---|---|
| 137 | Mercury and its compounds, all members | 水銀とその化合物(全て) | 7439-97-6, etc. | Prohibited from Intentional Use. (In case of unintentional use, the sum of lead, cadmium, mercury and chromium (VI) present in packaging or packaging components are prohibited from use >0.01wt% (100ppm) | Packaging Directive 94/62/EC California State Health and Safety Code 25214.11 Rhode Island state law |
| 147 | Monomethyldibromodiphenylmethane | モノメチルジブロモジフェニルメタン(DBBT) | 99688-47-8 only | Prohibited from intentional use | EU Regulation 848/2012 (REACH EU-R 1907/2006 Annex XVII), Turkish law |
| 148 | Monomethyldichlorodiphenylmethane | モノメチルジクロロジフェニルメタン | 81161-70-8 only | Prohibited from intentional use | EU Regulation 848/2012 (REACH EU-R 1907/2006 Annex XVII), Turkish law |
| 149 | Monomethyltetrachlorodiphenylmethane | モノメチルテトラクロロジフェニルメタン | 76253-60-6 only | Prohibited from intentional use | EU Regulation 848/2012 (REACH EU-R 1907/2006 Annex XVII), Turkish law |
| 159 | N-Nitrosamines, selected | N-ニトロソアミン(指定物質) | 62-75-9 only | Prohibited from intentional use | Canadian law (SOR/SOR/2005-41) German law (TRGS 552, TRGS 615) |
| 169 | Ozone depleting halogenated Hydrocarbons and Carbons, all members | オゾン層破壊ハロゲン化炭化水素 (全て) | 74-83-9, etc. | Prohibited from intentional use | Montreal Protocol; (EU)2024/590 |
| 170 | Pentachlorobenzene | ペンタクロロベンゼン | 608-93-5 only | Prohibited from intentional use | POPs convention Canadian law (SOR/SOR/2005-41) |
| 171 | Pentachlorophenol (PCP) and its salts and esters, all members | ペンタクロロフェノール (PCP) とその塩とエステル(全て) | 87-86-5, etc. | Prohibited from use >0wt% (including unintentional use) | (EU)2019/1021 German law (ChemVerbotsV) Japanese law(CSCL) |
| 174 | Perfluorobutane sulfonic acid (PFBS) and its salts, all members | ノナフルオロブタンスルホン酸(PFBS)とその塩(全て) | 375-73-5, etc. | Prohibited from intentional use | Minnesota state law |
| 176 | PFHxA and its salts | PFHxAとその塩 | 21615-47-4, etc. | Prohibited from intentional use | Minnesota state law |
| 177 | PFHxA related substances | PFHxA関連物質 | 102488-47-1, etc. | Prohibited from intentional use | Minnesota state law |
| 179 | PFOA and its salts | PFOAとその塩 | 335-67-1, etc. | Prohibited from use >25ppb(0.0000025wt%) Except the articles put on the market before July 4, 2020. | REACH EU-R 1907/2006 Annex XVII 2017/1000 Japanese law (CSCL) Minnesota state law |

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|-----------|---|--|--|---------------------------|---|--|
| 180 | PFOA related Compounds | PFOA関連物質 | | 68333-92-6, etc. | Prohibited from intentional use. In case of unintentional use; Individually or in any combination Prohibited from use >1000ppb(0.0001 wt%). Except the articles put on the market before July 4, 2020. | REACH EU-R 1907/2006 Annex XVII 2017/1000 Korean POPs Minnesota state law |
| 181 | Other PFOA Related Compounds | その他のPFOA関連物質 | | 2043-52-9, etc. | Prohibited from intentional use. In case of unintentional use; Individually or in any combination Prohibited from use >1000ppb(0.0001 wt%). Except the articles put on the market before July 4, 2020. | REACH EU-R 1907/2006 Annex XVII 2017/1000 Korean POPs Minnesota state law |
| 183 | PFCAs (C9-C14) and their salts | PFCAs(C9-C14)とその塩 | | 15811-52-6, etc. | Individually or in any combination: Prohibited from use >25ppb (0.0000025wt%) | (EU) 2021/1297 Minnesota state law |
| 184 | PFCAs (C9-C14) related substances | PFCAs(C9-C14)関連物質 | | 90622-71-2, etc. | Individually or in any combination: Prohibited from use >260ppb(0.000026wt%) 25ppb (0.0000025wt%) | (EU) 2021/1297 Minnesota state law |
| 185 | PFOS, Perfluorooctane sulfonates C8F17SO2X (X = OH, Metal salt, halide, amide, and other derivatives including polymers), all members | PFOS、パーフルオロオクタンスルホン酸塩 C8F17SO2X (X = OH, 金属、ハロゲン、アミド、その他 (ポリマーを含む)(全て) | | 1763-23-1, etc. | Prohibited from intentional use | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law Canadian law Japanese law (CSCL) Minnesota state law |
| 187 | PFHxS and its salts | PFHxSとその塩 | | 355-46-4, etc. | Prohibited from use >25ppb (0.0000025wt%) | National law of Switzerland Minnesota state law |
| 188 | PFHxS related substances | PFHxS関連物質 | | 111393-39-6, etc. | Individually or in any combination: Prohibited from use >1000ppb (0.0001wt%) | National law of Switzerland Minnesota state law |
| 189 | PFHpA, Perfluoroheptanoic acid and its salts, all members | PFHpAとその塩 (全て) | | 375-85-9, etc. | Prohibited from intentional use | Minnesota state law |
| 190 | Other PFAS Substances, all members | その他のPFAS (全て) | | 1029089-63-1, etc. | Prohibited from intentional use | Minnesota state law |

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|-----------|---|--|---------------------------------------|---|---|--|
| 194 | Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)-(UV320) | 2-(2H-ベンゾトリアゾール-2-イル)-4,6-ビス(1,1-ジメチルエチル)-フェノール(UV320) | | 3846-71-7 only | Prohibited from intentional use | Japanese law (CSCL) |
| 206 | Phenol, 2,4,6-tris(1,1-dimethylethyl)- | 2,4,6-トリス(1,1-ジメチルエチル)-フェノール | | 732-26-3 only | Prohibited from intentional use | Japanese law (CSCL) |
| 218 | Phthalates, selected | フタル酸類(指定物質) | | 85-68-7, 117-81-7, 84-74-2, 84-69-5 | Prohibited from use ≥0.1wt% | (EU)REACH Annex XVII, Annex XIV |
| 221 | Polybrominated biphenyls (PBB), all members | ポリ臭化ビフェニル (PBB) (全て) | 六臭化ビフェニル | 36355-01-8 | Prohibited from use >0wt% (including unintentional use) | (EU)2019/1021 POPs convention Japanese law (CSCL) REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law Canadian law (SOR/SOR/2005-41) |
| | | | PBB類 (ポリ臭素化ビフェニル) | 73141-48-7, etc. (except 36355-01-8) | Prohibited from intentional use (Also prohibited from use >0.1wt% in case of unintentional use) | |
| 222 | Polybrominated diphenyl ethers (PBDE), all members | ポリ臭化ジフェニルエーテル (PBDE)(全て) | テトラBDE, ペンタBDE, ヘキサBDE, ヘプタBDE, デカBDE | 40088-47-9, 5436-43-1, 32534-81-9, 60348-60-9, 36483-60-0, 68631-49-2, 207122-15-4, 116995-33-6, 68928-80-3, 446255-22-7, 207122-16-5, 1163-19-5 | Prohibited from use (Also prohibited from use >0.05wt% in case of unintentional use:) (Individually or in combination of 5 substances) | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law Switzerland law US states law, POPs Japanese law (CSCL) US Federal law |
| 224 | Polychlorinated Biphenyls (PCB), all members | ポリ塩化ビフェニル (PCB)(全て) | | 16606-02-3, etc. | Prohibited from use >0wt% (Also prohibited from use in case of unintentional use) | POPs (Stockholm Convention) REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law Japanese law (CSCL) |
| 225 | Polychlorinated Naphthalenes ; all members | ポリ塩化ナフタレン(全て) | | 70776-03-3, etc. | Prohibited from intentional use | Japanese law (CSCL) (EU)2019/1021 |
| 226 | Polychlorinated Terphenyls (PCT) | ポリ塩化ターフェニル (PCT) | | 61788-33-8 only | Prohibited from use >0.005wt% | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC), Turkish law ChemVerbotsV |
| 256 | Sulfur Hexafluoride | 六フッ化硫黄 | | 2551-62-4 only | Prohibited from intentional use | (EU)2024/573 Danish law |
| 265 | Tetrachlorobenzene, all members | テトラクロロベンゼン(全て) | | 12408-10-5, etc. | Prohibited from intentional use | Canadian law (SOR/SOR/2005-41) |
| 266 | Tetrafluoro-methane | テトラフルオロメタン(フッ化炭素) | | 75-73-0 only | Prohibited from intentional use | (EU)2024/573 Danish law |
| 278 | Triorganotin compounds, all members | トリ有機すず化合物(全て) | | 3644-37-9, etc. | Prohibited from intentional use | REACH EU-R 1907/2006 Annex XVII (former 76/769/EEC) , Turkish law Japanese law (CSCL) |
| (302) | Benzenethiol, 2,3,4,5,6-pentachloro- (PCTP) | ペンタクロロチオフェノール | | 133-49-3 | Prohibited from use >1wt% | US Federal law |
| (303) | MOAH, MOSH contained in mineral oil | 鉱物油中MOAH、MOSH ※包装材・ラベル・タグなどの印刷用インク | | - | Prohibited from use | France's Anti-waste and Circular Economy Law MOAH : Mineral Oil Aromatic Hydrocarbons MOSH : Mineral Oil Saturated Hydrocarbons |

Table 3 Criteria for Packaging Substances

The target of this standard is packaging materials, etc. (packaging materials and protective materials)

•Restricted substances contained in packaging materials, etc. shall satisfy the packaging material standards shown in the table below.

| GADSL No. | Substance | 物質名（和名） | | CAS-No. | Criteria for Packaging | Major Relevant Laws and Regulations(reference) |
|-----------|--------------------------------|-----------------|--|---|--|--|
| | | | | - | Prohibited from use from January 1st, 2025 | *Any printed material which has a function of packaging or printed material which are disposed before use by consumers are regarded as packaging |
| | | | | - | Prohibited from use from January 1st, 2025 | |
| - | Polyvinyl chloride (PVC) | ポリ塩化ビニル（PVC） | | 9002-86-2, 25037-47-2, 26793-37-3 | Prohibited from intentional use | Korea; Evaluation and labeling of packaging materials |
| - | Polyvinylidene chloride (PVDC) | ポリ塩化ビニリデン（PVDC） | | 9002-85-1 | Prohibited from intentional use | Korea; Evaluation and labeling of packaging materials |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------------------------|--|--------------------------------------|--|------------------------------|--|--|
| United Nations Convention | POPs | 64 | Chlorinated paraffins (with carbon chain lengths in the range C14-17 and chlorination levels at or exceeding 45 per cent chlorine by weight) | 85535-85-9 | Prohibited from use | <u>To be added to Annex A at COP12 in 2025.</u> |
| | POPs | 183 | Long-chain perfluorocarboxylic acids (PFCA), their salts and related compounds | 15811-52-6 etc. | Prohibited from use | |
| | <u>Minamata Convention on Mercury</u> | 137 | <u>Mercury and its compounds, all members</u> | <u>7439-97-6 etc.</u> | <u>The manufacture, import or export of the following product shall not be allowed.</u> <u>- Bridges, switches and relays, etc. with a maximum mercury content of 20 mg per bridge, switch or relay</u> | <u>January 1st, 2025</u> |
| Japan | CSCL | 103 | Dechlorane plus, all members | 13560-89-9, etc. | Bans the import of the following products: •Modifying additives to give resins flameproof performance •Silicone rubber •Lubricant •Adhesives and tapes •Parts, housings, electrical wiring and cables for electrical and electronic products | (Estimation) November 1st, 2024 Enactment of laws |
| | CSCL | 46 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | Bans the import of the following products: •Paints and varnishes •Lubricant •Adhesives, tapes and sealing fillers •UV absorber for plastics | |
| | US Federal law | 61 66 135 137 218 173 | Cadmium and its compounds, all members, Chromium(VI)-salts, all members, Lead and its compounds, all members, Mercury and its compounds, all members, Phthalates, Per- and polyfluoroalkyl substances (PFAS) | - | Contained in packaging materials or packaging parts. •Lead, Cadmium, Mercury, or Chromium(VI) : Prohibited from intentional use (Sum of the 5 substances: Prohibited from unintentional use >100ppm (0.01%)) •Phthalates: Prohibited from intentional use (Sum of phthalates: Prohibited from unintentional use >100ppm (0.01%)) •PFAS: Prohibited from intentional use (For unintentional use, it must be below detectable level.) | Not fixed yet |
| | | 62 | <u>Trichloroethylene</u> | <u>79-01-6</u> | <u>Prohibited from use, except in the following cases:</u> <u>- Industrial and commercial use as a lubricant and grease in penetrating lubricant</u> <u>- Industrial and commercial use as an adhesive and sealant in solvent-based adhesives and sealants</u> <u>- Industrial and commercial use in corrosion inhibitors and anti-scaling agents</u> <u>- Industrial and commercial use of Trichloroethylene as a processing aid</u> | <u>(Estimation)</u> <u>November 1st, 2024</u> |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------|--|-------|--|------------------------------|---|---|
| USA | TSCA | 134 | <u>Isopropylphenyl phosphate (PIP)</u> | <u>68937-41-7</u> | <p><u>After [DATE 5 YEARS AFTER THE DATE OF PUBLICATION IN THE FEDERAL REGISTER], all persons are prohibited from all processing, distribution and manufacturing lubricants and greases</u></p> <p><u>After [DATE 15 YEARS AFTER THE DATE OF PUBLICATION IN THE FEDERAL REGISTER], all persons are prohibited from all processing, distribution, and manufacturing products for use in new parts for motor vehicles, including heavy machinery</u></p> <p><u>After [DATE 30 YEARS AFTER THE DATE OF PUBLICATION IN THE FEDERAL REGISTER], all persons are prohibited from all processing, distribution, and manufacturing products for use in replacement parts for motor vehicles, including heavy machinery</u></p> | <u>Not fixed yet</u> |
| | | 230 | <u>1-Methylpyrrolidin-2-one (2-Pyrrolidinone, 1-methyl) (NMP)</u> | <u>872-50-4</u> | <p><u>Prohibited in the following use (≥ 0.1 wt%):</u> - Processing incorporation into articles in lubricants and lubricant additives in machinery manufacturing - Automotive care products, and lubricants and greases</p> <p><u>After [DATE 18 MONTHS AFTER THE DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER]: Prohibited from distributing in commerce to retailers</u> <u>After [DATE 21 MONTHS AFTER THE DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER]: Prohibited from distributing in commerce</u> <u>After [DATE 24 MONTHS AFTER THE DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER]: Prohibited from use</u></p> | <u>(Estimation)</u> <u>January 1st, 2026</u> |
| | State of Vermont, USA An act relating to prohibiting the sale of mercury-containing lamps | 137 | Mercury and its compounds, all members | 7439-97-6, etc. | <u>Beginning on July 1st, 2023, no person shall sell or offer for sale mercury-containing lamps in the state. This prohibition shall not apply to ceramic metal halide lamps.</u> | Not fixed yet |
| | Massachusetts State; Bill of PFAS regulation | 173 | PFAS, Per and Poly-fluoroalkyl substances (PFAS) | PFAS group of substances all | <p>The products, explained below, shall not be offered for sale, sold or distributed if the total fluorine content, whether intentionally or not intentionally added, is present greater than 1ppm.</p> <p><u>(1) Beginning January 1st, 2027</u> Child passenger restraints, rugs and carpets, <u>textiles</u>, products for children, or the others.</p> <p><u>(2) Beginning January 1st, 2031</u> <u>Any product not exempted</u></p> | <u>(Estimation)</u> <u>(1) January 1st, 2027</u> <u>(2) January 1st, 2031</u> |
| | Colorado State; Law on PFAS regulation | | | | <p>A person shall not sell, offer for sale, distribute for sale, or distribute for use any product in any of the following product categories if the product contains intentionally added PFAS chemicals.</p> <p><u>(1) Cleaning products</u> <u>(2) Textile articles</u></p> | <u>(1) January 1st, 2026</u> <u>(2) January 1st, 2028</u> |
| | Georgia State; Bill of PFAS regulation | | | | <p>Prohibited to distribute, sale, or offer for sale of any juvenile product (a product designed for use by infants and children under 12 years of age) that contains PFAS chemicals.</p> <p>Such as CRS (child restraint system) or the others</p> | Not fixed yet |
| | New Jersey Legislation on PFAS Regulation | | | | <p>No person shall sell, offer for sale, or distribute for sale in the State a carpet or fabric treatment that contains intentionally added PFAS.</p> | Two years after the effective date of this act. (Scheduled around 2026) |
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Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------|---|-------|---|---------|--|---|
| | Minnesota Legislation on PFAS Regulation | 173 | PFAS, Per and Poly- fluoroalkyl substances (PFAS) | | No person may sell, offer for sale, or distribute for sale in this state the following products if the product contains intentionally added PFAS: Beginning January 1, 2032 -Any product that contains intentionally added PFAS | January 1st, 2032 |
| | Rhode Island state Bill of PFAS regulation | | | | No person shall manufacture, sell, or offer for sale in the state any covered product that contains intentionally added perfluoroalkyl and polyfluoroalkyl substances (PFAS). Covered products; Juvenile product (Products designed for use by infants and children under twelve years of age. But it does not include a children's electronic product). | January 1st, 2027 |
| | California state Bill of PFAS regulation for cleaning products | | | | A person or entity shall not manufacture, sell, deliver, distribute, hold, or offer for sale in commerce in this state a cleaning product for automotive product and water vessel product containing any of the following: (1) Intentionally added PFAS. (2) PFAS in a product or ingredient at or above the following thresholds, as measured in total organic fluorine with documented quality control procedures and analytical validations: (A) Commencing January 1, 2026, 50 parts per million. (B) Commencing January 1, 2027, 25 parts per million. (C) Commencing January 1, 2028, 10 parts per million. | (Estimation) January 1st, 2026 |
| | California state; Bill of PFAS regulation | | | | Unless it is determined that it is unavoidable use, a person shall not distribute, sell, or offer for sale in this state a product that contains intentionally added PFAS. | (Estimation) January 1st, 2030 |
| | New Hampshire state Bill of the prohibition of certaining products with intentionally added PFAS | | | | Product Ban. The following PFAS-added consumer products shall be prohibited. - Carpets or rugs - Juvenile products | (Estimation) July 1st, 2028 |
| | Illinois state; Bill of PFAS regulation | | | | A person may not sell, offer for sale, or distribute for sale in this State the following products if the product contains intentionally added PFAS: - carpets or rugs - cleaning products - juvenile products | (Estimation) January 1st, 2025 |
| | Connecticut state: Law on concerning the use of PFAS in certain products | | | | No person shall manufacture, sell, offer for sale or distribute for sale in this state any product that contains intentionally-added PFAS - Children's products - Automotive maintenance products | July 1st, 2026 Exempted if it is labeled January 1st, 2028 |
| | Maine State: Amendment of an Act to stop perfluoroalkyl and perfluoroalkyl substances (PFAS) pollution | | | | Prohibition on sale of products containing intentionally added PFAS | January 1st, 2032 |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------|--|--------------------------|---|------------------------|--|---|
| | <u>Michigan state: Hazardous Products Act (Prohibition of sale or offer or distribute for sale of the product containing intentionally added PFAS)</u> | | | | <p><u>Unless currently unavoidable, no person shall sell, or offer or distribute for sale any product that contains intentionally added PFAS</u></p> <p><u>(1) Beginning January 1st, 2027</u> - Carpets, rugs - Cleaning products (including automotive use) - Juvenile products, which include any product designed for use by infants and children under 12 years of age</p> <p><u>(2) Beginning January 1st, 2032</u> <u>Any product</u> <u>A person may not manufacture, sell or offer for sale in this Commonwealth a covered product that contains an intentionally added PFAS chemical.</u></p> | <p><u>(Estimation)</u> <u>(1) January 1st, 2027</u> <u>(2) January 1st, 2032</u></p> |
| | <u>Pennsylvania state: Bill of PFAS regulation</u> | | | | <p><u>(1) Beginning January 1st, 2027</u> - Cleaning products (Including automotive use) - Carpets, rugs - Juvenile products, which include any product designed for a use by infants and children under 12 years of age - A textile article.</p> <p><u>(2) Beginning January 1st, 2032</u> <u>Any product</u></p> | <p><u>(Estimation)</u> <u>(1) January 1st, 2027</u> <u>(2) January 1st, 2032</u></p> |
| | New Hampshire; Bill of Extended Producer Responsibility for packaging | 218 57 173 etc. | — | - | <p>Beginning 2 years after the adoption of rules, no person or entity shall sell, offer for sale, or distributed for use in this state any packaging containing; (a) Ortho-phthalates, (b) Bisphenols, (c) Per- and polyfluoroalkyl substances (PFAS), (d) Lead and lead compounds, (e) Hexavalent chromium and compounds, (f) Cadmium and cadmium compounds, (g) Mercury and mercury compounds as not covered by existing statute, (h) Benzophenone and its derivatives, (i) Halogenated flame retardants, (j) Perchlorate, (k) Formaldehyde, (l) Toluene, (m) Antimony and compounds, (n) UV 328 (2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol)</p> <p>Beginning 2 years after the adoption of rules, no person or entity shall sell, offer for sale, or distributed for use in this state any packaging containing; (a) Polyvinyl chloride (b) Polystyrene (c) Polycarbonate</p> | <p>(Estimation)</p> <p>The adoption of rules September 1st, 2024</p> <p>Prohibition of sale, etc. September 1st, 2026</p> |
| | <u>Minnesota state law</u> | 60 134 | <u>Cadmium and its compounds, all members</u> <u>Lead and its compounds, all members</u> | | <p><u>Use of electronic components in key fobs</u></p> <p><u>Cadmium; Prohibited from use $\geq 0.0075\%$ (75ppm) by total weight</u></p> <p><u>Lead; Prohibited from use $\geq 0.009\%$ (90ppm) by total weight</u></p> | <u>July 1st, 2025</u> |
| Canada | <u>the Products Containing Mercury Regulations</u> | 137 | <u>Mercury and its compounds, all members</u> | <u>7439-97-6, etc.</u> | <p><u>Bulbs for automobile headlamps (max. 10 mg per lamp)</u> <u>End of exemption date: December 31st, 2025</u></p> <p><u>Replacement bulbs for automobile headlamps (max. 10 mg per lamp)</u> <u>Start of exemption date: January 1st, 2026</u></p> | <u>December 31st, 2025</u> |
| | | 103 | Dechlorane plus | 13560-89-9 etc. | Prohibited to manufacture, sale and import of products containing these substances. Exempt when; -A permit is issued, (3 years maximum), -Manufacture, use, sale and import of EEE, vehicles and specific parts – 5 years following publication of final Regulations in the Canada Gazette, Part II, | |
| | | 107 | decabromodiphenyl ethane (DBDPE) | 84852-53-9 | -Use, sale, and import of specific replacement parts to service EEE and vehicles – 20 years following publication of the final Regulations in the Canada Gazette, Part II, or -Use and sale of the products that were in use or in inventory at the time the Regulations come into force. | |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------|---|-----------|--|------------------|--|------------------------------------|
| | The prohibition of certain toxic substances regulations, 2022 | 185 | PFOS, perfluorooctane sulfonate, its salts and its precursors | 1763-23-1, etc. | -Repeal the exemption allowing the manufacture, use, sale, offer for sale and import of a product containing PFOS, designed for use in photoresists or anti-reflective coatings for photolithography process or photographic films, papers, and printing plates, | Not fixed yet |
| | | 179 | PFOA, perfluorooctanoic acid, and its salts and its precursors | 335-67-1, etc. | -Repeal the exemption allowing the use, sales, offer for sale and import of manufactured items containing PFOA and LC-PFCAs, but continue to exempt: -The use and sale of manufactured items containing PFOA and LC-PFCAs that were in use or in inventory at the time the Regulations come into force; and | |
| | | 183 | LC-PFCAs, long chain perfluorocarboxylic acids, their salts and their precursors | 15811-52-6, etc. | -For a specified period of time, the use, sale and import of certain semi-conductors, and the ongoing use and sale of manufactured items containing them -Repeal the exemption allowing the use, sale, and offer for sale of products (that are not manufactured items) containing PFOA and LC-PFCAs that were manufactured or imported before December 23, 2016. | |
| EU | EU POPs | 74 | Cyclododecane, hexabromo-(HBCD) | 25637-99-4, etc. | Prohibited from intentional use (Also prohibited from use >0.0075wt% in case of unintentional use) | (Estimation) October 1st, 2024 |
| | Mercury Added Products Regulation | 137 | Mercury and its compounds, all members | 7439-97-6, etc. | Prohibits the manufacturing, import and export of the following products with added mercury •Compact fluorescent lamps with integrated ballasts(CFL.i) for general lighting of 30 watts or less, containing mercury not exceeding 2.5 mg per lamp burner •Cold cathode fluorescent lamps(CCFL) and external electrode fluorescent lamps(EEFL) of any length for electronic displays •Tire balancers and wheel weights | December 31st, 2025 |
| | REACH Annex XIV | 114 | Ethylenediamine | 107-15-3 | In case of manufacturing or using the authorization substances in EU, it is subjected of the application for authorization. In case the application is not done, the manufacturing or using the substances shall be banned after the sunset date. If it is authorized 18 months before the sunset date, the substance can be used with due date. | Not fixed yet |
| | | - | 2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers | - | | |
| | | 135 | Lead | 7439-92-1 | | |
| | | 50 119 | Glutaral | 111-30-8 | | |
| | | 139 | 2-methyl-1-(4-methyl thiophenyl)-2-morpho linopropan-1-one | 71868-10-5 | | |
| | | 48 | 2-benzyl-2-dimethyl amino-4'-morpholino butyrophenone | 119313-12-1 | | |
| | | - | Diisohexyl phthalate | 71850-09-4 | | |
| | | - | Orthoboric acid, sodium salt | 13840-56-7 | | |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|---------|---------------------|------------------|--|--|---|---|
| | REACH Annex XIV | 136 | Melamine | | | |
| | | 276 | 'S- (tricyclo(5.2.1.0 ² ,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2- ethylhexyl) O- (isopropyl or isobutyl or 2- ethylhexyl) phosphorodithioate | 108-78-1 255881-94-8 75980-60-8 13701-59-2 26040-51-7 | In case of manufacturing or using the authorisation substances in EU, it is subjected of the application for authorisation. 1. In case the application is not done, the manufacturing or using the substances shall be banned after the sunset date. 2. If it is authorised 18 months before the sunset date, the substance can be used with due date. | (Estimation) December 1st, 2026 |
| | | - | Diphenyl(2,4,6-trimethylbenzoyl)p hosphi ne oxide | | | |
| | | 52 | Barium diboron tetraoxide | | | |
| | REACH Annex XVII | | Bis(2-ethylhexyl) | | | |
| | | 57 | <u>Bisphenol & derivates, selected</u> | <u>80-05-7, 77-40-7, 80-09-1, 620-92-8, 1478-61-1</u> | <u>Prohibited from use ≥0.001wt%(10ppm) in mixtures and articles (individually or in combination of 5 substances)</u> | <u>Not fixed yet (EiF + 18 months)</u> |
| | | 91 | 2,4 Dinitrotoluene | 121-14-2 | Prohibited from use >0.1wt% in articles. Use and placing on the market of articles already in use in the Union before entry into force shall be allowed. | (Planned) 2025 |
| | | 165 77 104 | octamethylcyclotetr asiloxane (D4) decamethylcyclope ntasiloxane (D5) dodecamethylcyclo hexasiloxane (D6) | 556-67-2 541-02-6 540-97-6 | <u>Shall not be placed on the market as a substance on its own, as a constituent of other substances or in mixtures in a concentration equal to or greater than 0.1% by weight of the respective substance However, the following conditions shall not apply to an element in a mixture:</u> - <u>D4, D5 or D6 in a concentration equal to or less than 1% by weight of the respective substance in the mixture, for use in adhesion, sealing, gluing and casting</u> - <u>D4 in a concentration equal to or less than 0.5% by weight, or D5 or D6 in a concentration equal to or less than 0.3% by weight of either substance in the mixture for use as protective coatings (including marine coatings)</u> - <u>D4, D5 or D6 in a concentration equal to or less than 0.5% by weight of the respective substance in the mixture, for use as adhesion promoters</u> | <u>June 7th, 2026</u> |
| | | 173 | PFAS, Per and Poly- fluoroalkyl substances (PFAS) | | Shall not be placed on the market with more than the following concentration in another substance(as a constituent), a mixture, and an article. (1)Substances on their own, use prohibited ≥25ppb (Polymeric PFASs are excluded) (2)The sum of PFASs, use prohibited ≥250ppb (Polymeric PFASs are excluded) (3)The sum of PFASs, use prohibited ≥50ppm (Polymeric PFASs are included) Exemption from application[Exemption period] •Polymerisation aids in the production of polymeric PFASs other than PTFE, PVDF and FKM. [6.5 years] •Refrigerants in mobile air conditioning-system in combustion engine vehicle with mechanical compressors. [6.5 years] •Lubricants where the use takes place under harsh conditions or the use is needed for safe functioning and safety of equipment. [13.5 years] •The fluoropolymer for proton-exchange membrane(PEM) of fuel cells. [6.5 years] | Eighteen months after the effective date of this act. (Scheduled around 2026) |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|-----------|---|------------|--|---|--|--|
| | | | | | Candidate for reconsideration of exemption [Exemption period] •Textiles intended for use in engine compartments for sound and vibration isolation used in the automotive industry [13.5 years] •Hard chrome plating [6.5 years] •Semiconductor manufacturing processes [13.5 years] •Fluoropolymers for use in applications affecting the proper safety-related functions of transport vehicles and affecting the safety of drivers, passengers or goods [13.5 years] | |
| | | 175 176 | undecafluorohexanoic acid (PFHxA), its salts and related substances | All substances group of PFHxA | In the mixture for the general public; •Sum of PFHxA and its salt: Prohibited from use ≥ 25 ppb •Sum of PFHxA related substances Prohibited from use ≥ 1000 ppb | Scheduled for December 20th, 2025 |
| France | <u>Draft law to protect the public from the risks associated with PFAS</u> | | | | <u>Prohibited for manufacture, import, export and placing on the market of textile clothing products containing PFAS</u> | (Estimation) January 1st, 2030 |
| Australia | Austraria POPs | 74 222 | (1)DecaBDE and NonaBDE (2)Hexabromocyclo dodecane (3)OctaBDE, HeptaBDE and HexaBDE (4)PentaBDE and tetraBDE | (1) 1163-19-5 63936-56-1 63387-28-0 437701-79-6 437701-78-5 (2) 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 (3) 32536-52-0 68928-80-3 36483-60-0 (4) 40088-47-9 32534-81-9 | Prohibited from use However, except in the following cases; • (1), (3) and (4) are exempted if the total unintentional content of Deca-, Nona-, Octa-, Hepta-, Hexa-, Penta- and Tetra-BDE in the article is 0.05% or less •(2) is exempted if the unintentional use in an article is 0.01% or less •(1) is exempted for electric and electronic equipment (until 1 January 2027); or spare parts for motor vehicles that were manufactured prior to 2019 (until 1 January 2036) | (Estimation) (1) July 1st, 2025 (2)(3)(4) July 1st, 2024 |
| | <u>Industrial Chemicals Environmental Management</u> | 103 | <u>Dechlorane plus, all members</u> | <u>13560-89-9, etc.</u> | <u>The import and export of the chemical are prohibited whether on its own or in mixtures or in articles. However, the following are exempted:</u> <u>- In circumstances where the chemical is present as unintentional trace contamination</u> <u>- The motor vehicles that contain the chemical, that were manufactured before 1 July 2026</u> <u>- The replacement parts of motor vehicles. (until the end of the service life of the articles or 1 July 2044, whichever comes earlier)</u> <u>- The replacement parts of stationary industrial machines for use in agriculture, forestry and construction. (until the end of the service life of the articles or 1 July 2044, whichever comes earlier)</u> <u>- The replacement parts of marine, garden, forestry and outdoor power equipment.(until the end of the service life of the articles or 1 July 2044, whichever comes earlier)</u> | <u>July 1st, 2026</u> <u>July 1st, 2031</u> <u>July 1st, 2044</u> |

Table 4 Information on Relevant Laws and Regulations

Legal matters requiring consideration of alternative technologies *Please report in IMDS or email separately if any of the relevant substances are contained.

| Country | Regulations | GADSL | Substance | CAS-No. | Legal contents | Legal deadline (Effective Date) |
|--------------|---|------------------------|--|------------------------------|--|------------------------------------|
| | Management Standard | 46 | <u>2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)</u> | <u>25973-55-1</u> | <u>The import and export of the chemical are prohibited whether on its own or in mixtures or in articles. However, the following are exempted:</u> <u>- Motor vehicles, industrial coating applications for automotive coating (until 1 July 2031)</u> <u>In circumstances where the chemical is present as unintentional trace contamination</u> <u>- The motor vehicles that contain the chemical, that were manufactured before 1 July 2026</u> <u>- The replacement parts of motor vehicles. (until the end of the service life of the articles or 1 July 2044, whichever comes earlier)</u> <u>- The replacement parts of stationary industrial machines for use in agriculture, forestry and construction. (until the end of the service life of the articles or 1 July 2044, whichever comes earlier)</u> | July 1st, 2044 |
| Singapore | Phasing out of fire-fighting foams containing PFAS | 177 184 185 | <u>(a) PFOA, its salts and related compounds</u> <u>(b) PFOS, its salts and related compounds</u> <u>(c) PFHxS, its salts and related compounds</u> | <u>335-67-1, etc.</u> | <u>(a): Prohibited from use ≥25 ppb</u> <u>(b): Prohibited from use ≥10,000 ppb</u> <u>(c): Prohibited from use ≥100 ppb</u> | <u>January 1st, 2026</u> |
| Saudi Arabia | The technical regulation for lubricating oils | 61 66 135 137 | Cadmium and its compounds, all members, Chromium(VI)-salts, all members, Lead and its compounds, all members, Mercury and its compounds, all members | | Prohibit the inclusion of lead or any heavy metal in packaging materials for lubricating oil | (Estimation) April 1st, 2024 |