

For reference

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Category	MES	Control No.	MES A 015
Title	Design Standard Restricting the use of hazardous substances	Edition No.	12
		MITSUBA Corporation	

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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 are used as the constituent parts of or can be attached on the products of Mitsuba and its group companies.
- (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 restricted substances from such products, the materials used in them shall be subject to this standard.

3. Restriction on the use of SOC

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.

Table	Class	Description
		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 3	<u>Criteria for Packaging Substances</u>	<u>List of restricted substances for packaging materials*.</u> <u>*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.</u>
<u>Table 4</u>	<u>Information on Relevant Laws and Regulations</u>	<u>Legal matters requiring consideration of alternative technologies.</u> <u>* If any of the listed substances are contained, it must be reported in IMDS.</u>

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, and Proposition 65).

- EU ELV Directive 2000/53/EC, Annex II (Exemption) as of December 2022
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 galvanised 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	This exemption shall be

Substance	Class	Materials and components exempt from ELV Directive	Scope of the exemption
		up to 0.4 % by weight	reviewed in 2021
	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 2021
	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)	Lead in batteries for battery applications not included in entry 5(a)	This exemption shall be reviewed in 2021
	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 soldering on electronic circuit boards or on glass	Vehicles type approved before 1 January 2011 and spare parts for these vehicles

Substance	Class	Materials and components exempt from ELV Directive	Scope of the exemption
	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
	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	Vehicles type approved before 1 January 2024 and spare parts for these vehicles

Substance	Class	Materials and components exempt from ELV Directive	Scope of the exemption
		mm. This exemption does not cover soldering to contacts embedded in the intermediate polymer	
	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:	
		(i)designed to operate fully or partly with electrical heater, having an average utilised electrical power input < 75W at constant running conditions:	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
		(ii)designed to operate fully or partly with electrical heater, having an average utilised electrical power input $\geq 75\text{W}$ 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	Danish law, Swedish law, etc.

5. Manner of application

The handling (submission, use, etc.) of the certificate of non-inclusion of SOC and the complete composition 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 complete composition data refers to the composition data of each material of delivered goods to be reported in the form of IMDS or JAPIA Standard Material Datasheet.

6. Note on drawing regarding restricted substances

The drawings of new or design changed products shall include the following sentence if the restriction on hazardous substances 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 materials of this part shall conform to MES A 015 “Restricting the Use of Hazardous Substances”.

<Application timing>

The above sentence shall be included on the drawings to be created on and after January 21, 2008.

7. Special notes

- For the already-issued drawings including the note regarding MES A 010 “Restricting on the use of specific substances” and QK06015 "Standards on Restrictions on the Use of Specified Substances", MES A 010 shall be interpreted as MES A 015 until the next update.
- When it is revealed that the received parts/materials contain prohibited substance(s), the administrative division below 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)

Administrative division:

General Affairs Dept Legal & CSR Section

Note) Report on prohibited substance(s) from a supplier shall be sent to the administrative division above 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 (9 companies)		MITSUBA Corporation Tatsumi Corp. Higashinihon Diecasting Industry Co., Ltd. Momimo Manufacturing Co., Ltd. Toyo Electric Manufacturing Co., Ltd. Sun-You Corp. Mitsuba Logistics Co., Ltd. Amco Corp. Mitsuba Sankowa 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 (6 companies)	Italy	Mitsuba Italia S.p.A.
	Hungary	Mitsuba Automotive Systems of Europe Kft.
	France	Mitsuba Manufacturing France S.A.
	Turkey	Mitsuba Turkey Otomotiv A.S.
	Germany	Mitsuba Germany GmbH
	Russia	Mitsuba Rus LLC
Asia (6 companies)	Thailand	Thai Summit Mitsuba Electric Manufacturing Co., Ltd.
	Philippine	Mitsuba Philippines Corp.
	Vietnam	Mitsuba Vietnam Co., Ltd.
	India	Mitsuba India Pvt. Ltd.
	Indonesia	P.T. Mitsuba Indonesia PT. Mitsuba Automotive Parts Indonesia <u>P.T. Tatsumi Indonesia</u>
China (6 companies)	China	Guangzhou Mitsuba Electric Co., Ltd. Guangzhou Mitsuba Electric (Wuhan) Co., Ltd. Mitsuba Electric (Dalian) Co., Ltd. Mitsuba China(Hong Kong)Ltd. Mitsuba Shihlin Electric (Wuhan) Co., Ltd.Changzhou Changzhou Shihlin Mitsuba Electric & Engineering Co., Ltd.
Africa (1 companies)	Morocco	Mitsuba Morocco SARLAU

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> <ul style="list-style-type: none"> - Reflection of SVHC to Table 3.
05	July.29, 2016	August.11, 2016	<ul style="list-style-type: none"> - Replacement of the GADSL with their latest versions Addition of <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.) Change of BNST(Source) - to Table 2. A threshold of a lead compound and a threshold of mercury and the

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) Addition of No.169-176 • 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. The form of Appendix is changed. Table 1:GADSL Table 2: List of Voluntarily-Prohibited Substances Not Covered by GADSL Table 3: REACH Substances List - GADSL 2018 ver1.0 revised contents are reflected. - P# (Mitsuba's original classification) is set in Mitsuba's classification. [Definition] P#: Substances classified as P# are prohibited in principle (and it is not allowed to newly use them). (However, Mitsuba may not require changeover of certain prohibited substances depending on type, customer, destination, and/or usage of products concerned.)
09	December 9, 2019	December 23, 2019	<ul style="list-style-type: none"> - Article 2: Scope of application Addition of "any product packaging materials" - 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 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# No16-1 and 16-2 - Change in the Mitsuba's Classification of the following substance to D/P 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]

History of original, revision, and repeal			
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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

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			<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"> - <u>Deletion of Mitsuba Group companies</u> - <u>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</u> - <u>Remove Table 3 (REACH Substance List)</u> - <u>Attachment Table 3 (Criteria for Packaging Substances) and Attachment Table 4 (Information on Relevant Laws and Regulations) added</u>

Super ordinate rule	Rules for MES Management
Subordinate rule	—

Enactment department	Business Management Dept.	Control department	Business Management Dept.
Decision maker	Business Management Dept. General Manager Hirokazu Shoda	Person in charge of control department	Development Management Sec. Manager Tetsuya Obara