

Enacted	2017-07-03	Revised (#)	2025-11-21 (04)	Effective	2025-11-21	No	SASG:E50-03A
Title	Restriction of the use of substances of environmental concern						

1. Scope

This standard specifies the prohibition or restriction of the use of substances that are contained in all parts, raw materials including packing materials, and specified indirect materials (including indirect materials that are shipping as composition of products) used in products of [Astemo, Ltd. and Astemo, Ltd. Gr. Companies] {hereafter called “(Astemo) Gr.”}.

(It shall be noted that, the latest regulations and customers' requirements have priority over this standard)

2. Purpose

The purpose of the standard is to uniformly manage the regulations and customer requirements that are different from each country, region, and product group, to specify the substances of environmental concern that shall be restricted from use by (Astemo) Gr., and to ensure compliance with the regulations and customer requirements.

3. Definition of terms

Definition of terms used in this standard shall be in accordance with Table 1 “Definition of terms”.

Table 1 Definition of terms

Terms	Definition
IMDS (International Material Data System)	Refer to the List of Astemo Group Defined Terms.
Indirect material	
Subcontracted item	
Purchased item	
Specified indirect material	
Supplier	
In-house parts	
Substances of environmental concern	Chemical substances that are restricted from use by international laws such as the Vienna Convention for the Protection of the Ozone Layer, Stockholm Convention on Persistent Organic Pollutants (POPs Convention) and Montreal Protocol on Substances that Deplete the Ozone Layer due to contribution to ozone depletion, global warming, acid rain, etc. and bad effects on the earth's environment, and that are restricted from use by each country's examination and restriction system on chemical substances due to having the possibility of badly effecting to the human body and environment
GADSL (Global Automotive Declarable Substance List)	The list is used by the automotive industry, which is published reporting substances to IMDS and the substances prohibiting to use. The list is updated every year in conformity to toughen of official regulations.
CAS RN®	Abbreviation of Chemical Abstract Service Registry Number, which is a universally used unique numerical identifier assigned to a chemical substance by the Chemical Abstract Service (CAS)

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4. Astemo Control List for Chemical Substances Contained in Products

- (1) The substances of environmental concern that are restricted from use by (Astemo) Gr. are summarized in the “Astemo Control List for Chemical Substances Contained in Products” (called “Chemical Substances Control List” in this standard).
- (2) Rank
 - P : Prohibited
 - D/P: Prohibited, but may use limited to the specific application or condition.
 - D_SVHC: Declarable SVHC (SVHC assumption substance)
 - D : Declarable

However, a homogeneous material which contains a substance of environmental concern of rank P or D/P is not treated as prohibited,
if the concentration of the substance in the homogeneous material is less than or equal to the threshold value in the chemical substances control list,
even under consideration of variations/fluctuations of the concentration.
- (3) (Astemo) Environmental Group update the Chemical Substances Control List to be based on GADSL, official regulations, and customers’ self-imposed rules. After updating, (Astemo) Environmental Group release to (Astemo)Gr. and suppliers the list as an appendix of this standard.
- (4) Control number of “Chemical Substances Control List” shall be “Christian era plus serial numbers”.
- (5) “Chemical Substances Control List” is revised once [or more](#) a year as separate treatment to revision of the body of standard.

5. Requirements for Design Group and Production Engineering Group

- (1) Design Groups of (Astemo) Gr. shall indicate that “THIS ITEM SHALL SATISFY THE REQUIREMENTS SPECIFIED IN SASG: E50-03A “RESTRICTION OF THE USE OF SUBSTANCES OF ENVIRONMENTAL CONCERNS””, in manufacturing drawings (see SASG: K20-01A) and technical specifications (see SASG: K60-02A) for Purchased items.
- (2) In the case of [In-house parts](#) or subcontracted items, the Design Group shall satisfy them with this standard.
- (3) In the case of purchasing Specified indirect materials, for the purpose to enable to apply for material code (SASG: [S22-08A](#)) or standard parts code (see SASG: [S22-07A](#)), Production Engineering Groups shall submit delivery specification (see SASG: K60-03A) of Purchased items or engineering specification (see SASG: K60-02A) to Procurement Groups in case of necessity.

6. Requirements for suppliers

6.1 Restriction of the use of substances of environmental concern

- (1) For the products to be delivered to (Astemo)Gr., suppliers shall not use substances of environmental concern with the Rank “P” that are included in the “Chemical Substances Control List” greater than the threshold value specified in this list.
- (2) Even though use of the substances of environmental concern with Rank “D/P” greater than the threshold value is also prohibited, it may be allowed with specific requirements such as application purpose and the destination of customer’s vehicles.

6.2 Report by IMDS

- (1) When suppliers received requests to submit material component data or environment data of parts by IMDS, the supplier shall report the substances of environmental concern contained in the purchased item, according to the “Chemical Substances Control List”.
- (2) [When the Chemical Substances Contained List is revised, the supplier shall check the contents of the revision. If information on a new substance needs to be added to previously reported IMDS data, the](#)

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supplier shall update the reported data.

- (3) When a substance of environmental concern is contained intentionally in a purchased item because the substance is necessary in terms of function, the supplier shall report the substance even though its content is equal or lower than the threshold value.
- (4) If the content of a substance of environmental concern with Rank "P" or "D/P" in a homogeneous material may exceed the threshold value, or if the content of a substance with Rank "D" in a homogeneous material is greater than 0.1% by mass, the supplier shall report the substance because it cannot be treated as an impurity.
- (5) Any single or multi chemical substance which is not included in the "Chemical Substances Control List" and whose content in a homogeneous material is within 10% by mass can be hidden by using "wildcards" in IMDS.

Note: Wildcards ⁽¹⁾

Refer to characters that can be used to hide chemical substances in IMDS. Wildcards must not be used for any declarable or prohibited substances specified on the Global Automotive Declarable Substance List (GADSL). In addition, use of wildcards is limited to a total of 10% of a homogeneous material. (e.g. "Misc., not to declare")

6.3 Submission of "Letter of Guarantee for Non-Containing and Non-Using"

- (1) Guarantee for non-containing and non-using of a substance of environmental concern shall be basically performed by Design Groups of (Astemo)Gr. which check the information reported by IMDS. Only when the Design Group accepts the special reason that the supplier cannot make a report by IMDS, the supplier shall submit Form B "Letter of Guarantee for Non-Containing and Non-Using" to Procurement Groups of (Astemo)Gr. in order to guarantee the requirements of (Astemo)Gr.
- (2) Non-containing guarantee is required the condition that all substances of environmental concern with Rank "P" and Rank "D/P" are not used greater than the threshold value. If use of a substance of environmental concern with Rank "D/P" greater than the threshold value is desired, a reason for allowing its use shall be entered in the "Individual Agreement" Column. (If its use is allowed according to the Exemptions in the latest version of the ELV Directive or RoHS Directive, the applicable Directive No. and Exemption No. shall be entered.)
- (3) Non-using guarantee is required the condition that substances of environmental concern with Rank "D_SVHC" are not used greater than 0.1% or more by mass. Suppliers shall guarantee that there is no information about using SVHC, according to investigation results regarding in-house work and upstream suppliers. (If use of SVHC is found out later, corrected information shall be provided to (Astemo)Gr. immediately.) Regarding substances of environmental concern with Rank "D_SVHC", provision information is mandatory, but their use is not prohibited. Whenever the content of SVHC in a homogeneous material is greater than 0.1% by mass, the using portion, the material name, the material mass, and the content (% by mass) shall be entered in the "Individual Agreement" Column. For other substances, a description stating that they meet the requirements shall be entered (such as guarantee

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for Non-Containing and Non-Using) in the “Individual Agreement” Column.

7. Requirements for Design Groups in the case of using substances of environmental concern with Rank “D/P”

- (1) In the case of using a substance of environmental concern with Rank “D/P” for any [In-house parts or subcontracted items](#), Design Groups of (Astemo)Gr. shall clearly indicate, in production drawings and engineering specification, etc., the reason for [approval](#) using the substance.
- (2) According to Clause [6.2](#), when supplier [reports](#) using a substance of environmental concern with Rank “D/P” and then Design Groups of (Astemo)Gr. permits the [using](#) of the substance, the Design Groups shall fill contents the reason for [approval using](#), etc. in Form A “Reasons to Use Restricted Substances with Rank D/P” and issue to the supplier. Its copy shall be kept together with Delivery Specifications if the relevant (Astemo)site or (Astemo)Gr. Company has Delivery Specifications. (Even if its use is allowed according to the Exemptions in the latest version of the ELV Directive or RoHS Directive, it is necessary to issue “Reasons to Use Restricted Substances with Rank D/P”.)
- (3) According to Clause [6.2 \(2\)](#), when Design Group receives reports of updated information from suppliers, the Design Group request suppliers to submit IMDS data if necessary.

8. Requirements for Design Groups in the case of containing substances of environmental concern on products delivered to customers

In the case of containing substances of environmental concern on products delivered to customers (mass production of products or repairing parts), when regulations, customers’ requirements, or the Chemical Substances Control List etc. are updated, the products in charge of Design Groups must be confirmed to conform to the above regulations if necessary.

When Design Group detects Non-conformity to the regulations or customer’s standards etc., the group shall promptly report to Quality Assurance Group by refer to rules on “Corrective and Preventive Actions (SASG: N70-01A)”.

9. Related Rules

SASG: [S22-08A](#) Material/Indirect Material Code

SASG: K20-01A Classification of Drawings

SASG: [S22-07A](#) Standard Parts Code

SASG: K60-02A Technical Specification

SASG: K60-03A Managing Delivery Specifications of Purchased Parts

[SASG: N70-01A Corrective and Preventive Actions](#)

SASC(JP): E50-02A [Operations for registration into IMDS](#)

SASC(JP): E51-03A [Procedure for Operating and Management the \(Astemo\) Materials Data System and IMDS relating Operations](#)

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10. Other

In order to secure the time for implementing the requirements in Chapter 6, the date of enforcement of a revision of the “Chemical Substances Control List” shall be one month after the revised date.

History

Revision-01 2018-07-01

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Examined by:

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Manufacturing / Production technology Rule Subcommittee (Chairperson: Yoshimi Mori)

Procurement Rule Subcommittee (Chairperson: Ikuo Matsumura)

Quality Rule Subcommittee (Chairperson: Kouichi Fujiwara)

Approved: (Global MONOZUKURI Management Div.) Hisanori Nakajima, General Manager

- (1) Add suitable description to clarify the condition which it is not used substances of environmental concern with Rank “P” or “D/P”, to clear the condition of guarantee for non-Containing and non-Using.
- (2) Change “CAS No.” to “CAS RN[®]” in accordance with the request from CAS (Chemical Abstracts Service)

Revision-02 2020-03-01

Drafted: Takafumi Enami (PEM Sec.) (Environment Protection Dept.) (Standard Operation Unit) (MONOZUKURI Management Div.)

Examined by:

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 Quality Rule Subcommittee (Chairperson: Nobuo Tanohara)

Approved : Kazuyoshi Akahira, General Manager of MONOZUKURI Management Div.

- (1) Related description was revised about changing “the method of material composition data or part environment data obtained and registered from the supplier” from “A’Gree Net” to “Hi-MDS”.
- (2) Changed the expression of obtaining various information provided by suppliers from "Register" to "Report" because of considering that the specific method of obtaining those is not uniform throughout (HIAMS).
- (3) Changed a part of expression of Form B

Revision-03 2023-01-25

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Procurement Rule Subcommittee (Chairperson: Atsushi Kinoshita)

Quality Rule Subcommittee (Chairperson: Nobuo Tanohara)

Approved : Genichiro Konno, General Manager of MONOZUKURI Management Div.

- (1) In chapter 1. “parts, materials (including packing materials), and specific ancillary materials” was changed to “parts, raw materials including packing materials, and specified indirect materials”.
- (2) In Table 1, “Indirect materials” and “GADSL” were added as terms, “Specific ancillary materials” was changed to “Specified indirect materials”, definitions of “Purchased items”, “Subcontracted items” and “Suppliers” were modified, “G-QUICs” and “JAMA sheet” were deleted. “Rank” was transferred to chapter 4, “Wildcards” was transferred to clause 6.2 as a note. The description of “Wildcards” was added “a homogeneous material”.
- (3) In chapter 4. “HIAMS Control list for Chemical Substances Contained in Products” was changed to “Hitachi Astemo Control list for Chemical Substances Contained in Products”.
- (4) In chapter 4. (2), Control Group was changed to Environment Group, contents also were modified.
- (5) In chapter 5. (1), (2), “materials” was deleted, and the descriptions were modified.
- (6) In chapter 5., about “Specific ancillary materials” which were in two places, the former was changed to

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Specified indirect materials, the latter was changed to Purchased items.

- (7) In chapter 5. (3), "code for Item without drawing (SASG: K31-03A)" was changed to "standard parts code (SASG: H10-07A)". SASG No.(K60-02A) of engineering specification was added.
- (8) In clause 6.2, SASG(JP : E51-03A) was deleted.
- (9) In clause 6.2 and 6.3, JAMA sheet was deleted.
- (10) In clause 6.3 (3), "guarantee for Non-Containing and Non-Using" was added.
- (11) In chapter 7. (1), "drawings" was changed to "production drawings and engineering specification".
- (12) In chapter 8., "SASG: K31-03A Code for Item without Drawing" was changed to "SASG: H10-07A Standard Parts Code".
- (13) Form A and Form B were deleted from body of this standard, and they were set supplements.
- (14) In form A, "parts/materials/specific sub materials" was changed to "parts/raw materials/indirect material". An entry example No.2 in "Reasons" was modified.
- (15) In form B, "JAMA sheet" was deleted from "Note 2".
- (16) In commentary 6., "Others" was changed to "Establishment details of SASG: E50-03A and addition of its history. The description of discussion members for revision-2 was deleted.

Revision-04 2025-11-21

- (1) The frequency of revision of "Chemical Substances Control List" was changed once or more a year.
- (2) In clause 6.1 (2), "If a supplier wants to use any of the substances of environmental concern with Rank "D/P" greater than the threshold value, the supplier shall make an inquiry to the Design Groups of (Astemo)Gr. about whether use of these substances is allowable or not ", was deleted.
- (3) In clause 6.2, "When the Chemical Substances Control List is revised, the supplier shall check the contents of the revision. If information on a new substance needs to be added to previously reported IMDS data, the supplier shall update the reported data", was added.
- (4) In chapter 7, "using a substance of environmental concern with Rank "D/P" greater than the threshold value", was deleted.
- (5) In chapter 7, "(3) According to Clause 6.2 (2), when Design Group receives reports of updated information from suppliers, the Design Group request suppliers to submit IMDS data using Hi-MDS (see SASG(JP): E51-03A) if necessary ", was added.
- (6) In chapter 8, "Requirements for Design Groups in the case of containing substances of environmental concern on products delivered to customers", was added.
- (7) Form A (Reasons to Use Restricted Substances with Rank D/P), the format was changed from "Word" to "Excel". Examples were added in Form A.
- (8) The following descriptions in Form A were changed respectively.
 - "Part No." changed to "(Astemo)Gr. Part No."
 - "Part or Material Name" changed to "Supplier Product No."
 - "parts / raw materials / indirect materials" changed to "purchased items"
- (9) The "Revision No." in Form A was deleted.

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Enacted 2017-07-03

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Commentary

1. Background

As a result of mass production, mass consumption, and mass disposal of products due to the globalization of corporate activities, serious global problems such as ozone layer depletion, global warming, and natural resource exhaustion have come into existence since around 1990. During 1950 to 1970, environmental problems included pollution in limited specific areas, which was caused by hazardous substances contained in wastewater from manufacturing factories. In the last decade, not only such hazardous substances, but also substances of environmental concern contained in products have been restricted in order to prevent environmental pollution from occurring during the use or disposal of the products. (The restriction was first introduced in the automotive industry by the EU ELV Directive enacted in July, 2003.)

Business enterprises have been requested by stakeholders to make commitments to fulfill their social responsibilities to realize a sustainable society. Hitachi has promoted a company-wide activity called “Environmental CSR-Compliant MONOZUKURI” since 2005 in order to avoid shipping any products containing harmful substances to the market.

HIAMS Gr. had previously requested suppliers not to contain prohibited substances in purchased items, according to Sawa Works Standard APS1: DB-01C “Substance Use Restrictions”, which was a controlled substances list summarizing the information of the substances voluntarily restricted by main carmakers. However, the list had problems, such as incomplete classification of the controlled substances and unclear relationships with customer standards as it was originally created based on Nissan Engineering Standard (NES): M0301 “Substance Use Restrictions” more than ten years ago, with other customer standards such as Toyota Engineering Standard: TSZ0001G “Control method for substances of environmental concern” being incorporated into the list. In order to solve the problems, SAS: K50-03A “Substance Use Restrictions” was enacted in April, 2008, with a complete revision of the list.

This time, the standard was revised and enacted as SASG in order to allow it to be applied to HIAMS Gr. Companies overseas.

2. Basic idea behind preparing the list

2.1 Substances in the list

The list is based on the GADSL (Global Automotive Declarable Substance List), which is a standard list in the automotive industry, and further includes the substances controlled by Hitachi Group, the substances voluntarily restricted or prohibited by customers, and the substances that meet any of the criteria for CMR (carcinogenic, mutagenic, and reproductive toxicity), PBT (persistent, bio-accumulative, and toxic), vPvB (very persistent and very bio-accumulative), and EQC (equivalent level of concern) and that may be proposed as SVHC (substances of very high concern) by REACH Regulations. A HIAMS Control Rank is assigned to each of the substances, which complies with the most severe requirements.

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2.2 Structure of the list

The list is created in PDF format, and consists of a summary list that shows substance groups in a simplified manner, and a detailed list that shows, for each substance group, examples of substances. When the list is printed, the watermark "HIAMS CONFIDENTIAL" will appear on the printed page(s).

2.3 Maintenance

Information about the GADSL is updated and published around the end of February every year, and information about the substances voluntarily restricted/prohibited by each customer is also expected to be updated once a year on average. Putting the list in the body of the standard will delay in updating the list. Therefore, the list is separated from the standard so that it can be updated in a timely manner.

The version number of the list is managed by using "Christian era plus serial numbers".

3. Reference information

Table 1 Reference Laws and Regulations and Customers' Requirements

Classification	Title
Laws and Regulations	Vienna Convention for the Protection of the Ozone Layer [Treaty No.8 dated Dec. 27, 1988]
	Montreal Protocol on Substances that Deplete the Ozone Layer [Treaty No.9 dated Dec. 27, 1988]
	The Law Concerning the Protection of the Ozone Layer through the Control of Specified Substances and Other Measures [Law No. 53 enacted in 1988]
	Stockholm Convention on Persistent Organic Pollutants (POPs Treaty) [Treaty No.3 dated Apr. 28, 2004]
	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. [Law No. 117 dated Oct. 16, 1973]
	End-of-Life Vehicles (ELV) Directive [Directive 2000/53/EC]
	RoHS Directive (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) [Directive 2011/65/EU]
	REACH Regulation: Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
	China ELV: "Management Requirements for Vehicle Hazardous Substances and Recyclable Utilization Ratios" [No.38 enacted in 2015] (Cited standard: GB/T30512-2014 "Requirements for Prohibited Substances on Automobiles")
Automotive Industry	Global Automotive Declarable Substance List (GADSL)
	"Reduction of Substances of Environmental Concern - Voluntary Efforts by Japan Automobile Manufacturers Association (JAMA) [JAMA Report No.93]
Hitachi, Ltd.	Hitachi Group's Voluntarily Controlled Chemical Substances (for Procured Products)
Nissan Motor	NES M0301 "Substance Use Restrictions"
Toyota Motor	TSZ0001G "Control method for substances of environmental concern"
Honda Motor	HCSC-G-001 "Honda Chemical Substance Management Standard"
SUBARU CORPORATION	TS103-00-42 "Prohibition of the Use of Hazardous Substances and its Notification"
Mazda Motor	MES-MA010 "RESTRICTED SUBSTANCES MANAGEMENT STANDARD"
Isuzu Motors	ISC-A00-008 "Restricted and reportable substances for parts"

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Suzuki Motor	SES N2402 "Restricting Use of Environmental Impact Substances"
	Green Procurement Guideline "Suzuki Controlled Chemical Substances"
Yamaha Motor	Green Procurement Guideline
Kawasaki Heavy Industries	KES C-026 "Restriction on the Use of Substances of Environmental Concern in Products and Materials"
Mitsubishi Motors	MS82-5000 "Control Criteria of Substances of Concern"
GM Motors	GMW3059 "Restricted and Reportable Substances for Parts"
Ford Motors	WSS-M99P9999-A1 "RESTRICTED SUBSTANCE MANAGEMENT STANDARD"
Volkswagen AG	VW91101 "Vehicle Environmental Standard, Vehicle Parts, Materials, Operating Fluids, Avoidance of Hazardous Substances"
	VW91101 Supplement 1 "Vehicle Environmental Standard, Vehicle Parts, Materials, Operating Fluids, Avoidance of Hazardous Substances; Special Requirements of the Volkswagen Group"
RENAULT	00-10-050 "PROHIBITED OR RESTRICTED SUBSTANCES LIST AND DECLARATION MODES"

4. Letter of Guarantee for Non-Containing and Non-Using

The EU REACH Regulation (Registration, Evaluation, Authorization and Restriction of Chemicals) defines, as SVHC (substances of very high concern), the substances that meet any of the criteria for 1) carcinogenic, 2) mutagenic, 3) toxic for reproduction, 4) persistent, bio-accumulative, and toxic, 5) very persistent and very bio-accumulative, and 6) equivalent level of concern, and imposes the duty of providing information on SVHC. (These substances are not prohibited.) Unlike the four heavy metals (Pb, Hg, Cr6+, Cd) restricted by ELV Directive, verification of containing SVHC by analysis is virtually impossible in terms of cost and man-hours. There are two methods to acquire chemical composition information: one is to use Material Data Systems for data collection and the other is to receive a "Letter of Guarantee for Non-Containing" for declaration. They are actually used in combination.

Considering the investigation of SVHC from the suppliers' viewpoint, although information can be obtained from in-house work and upstream suppliers, there is no evidence or guarantee to support the information obtained from upstream suppliers. Therefore, guarantee for non-containing of SVHC is not possible. However, based on investigation results, it is possible to guarantee that there is no information of containing SVHC. Based on this thinking, the "Letter for Non-Containing" was expanded into the "Letter of Guarantee for Non-Containing and Non-Using".

It is desirable for HIAMS Gr. to use Material Data Systems (IMDS and A Gree'Net (JAMA sheet)) in order to collect data on materials used in purchased items and on chemical substances contained in the materials, in terms of internal management of such data and the reports that are sent to customers with IMDS, CAMDS, etc. Use of "Letter of Guarantee for Non-Containing and Non-Using" should be avoided as much as possible.

5. Necessity to report substances contained below the threshold specified in the Chemical Substance Management List

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For the following reasons, it is not specified in this standard “whether the answer is necessary when the content is below threshold” There is no problem If the supplier responds as much as possible (Do not force an answer, but also do not indicate that no answer is required):

- The obligation of (HIAMS) is to “Comprehend the content information of controlled substances exceeding the threshold and report them to the customer” from the viewpoint of compliance and customer requirements.
- Even if there is no report of a substance with a content below the threshold, if the customer accepts it without any problem, there is no problem for (HIAMS) (No problem for compliance or customer request).
- Among the substances of control rank P, there are many process chemicals and substances which are likely to be contained as secondary products / impurities that are inevitably produced during the manufacturing process.

These substances are guaranteed to “do not exceed the threshold” by some confirmation by the supplier, but their content / concentration is not always accurately known. Especially in the case of process chemicals, each supplier (including (HIAMS)) performs the removal in the manufacturing process as much as possible. However, “100% removed (= remaining amount 0)” can never be said. On the other hand, “requesting a report of substances contained below a threshold” is the same as requesting a report of content in such a case (= very difficult to answer).If (HIAMS) compulsorily asks the supplier for such a content report, it is expected that many complaints will be received from the supplier as an “excessive response request”.

- Therefore, (HIAMS) will not request suppliers to report substances contained below the threshold that are not reported. It is never specified in (HIAMS) standards, etc. that “declare even if it is below the threshold”
- In addition, even if it is content below a threshold value, automakers may react excessively with the fact that the substance prohibited to contain contains. we need to be careful about this point.
- On the other hand, even if the content is below the threshold, it is no problem for (HIAMS) that supplier voluntarily reports the controlled substance. Therefore, it is not specified in (HIAMS) standard, etc. that “declaration is not required when the value is below the threshold”. (There is no need to reduce the possibility of obtaining information (HIAMS))

6. Establishment details of SASG: E50-03A and addition of its history

- Based on old SASC(JP):K50-03A, SASG:E50-03A is enacted with changing this department in charge to HIAMS Global MONOZUKURI Management Div. and reviewing following contents.(2017-07-03)

- (1)Review article 2 (Purpose)
- (2)Review content about item “Substances of environmental concern” of Article 3 (Definition of terms)
- (3)Review the definition of keyword “D/P” in item “rank” of Article 3 (Definition of terms)
- (4)Review content about item “IMDS” of Article 3 (Definition of terms)
- (5)Add article 4 (4)
- (6)Review detail expression of other content.

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- When this standard was enacted, following standard subcommittee discussed and confirmed the detail of this standard:

Production Management Rule Subcommittee (Chairperson: Toshimasa Hatai)

Design & Development Rule Subcommittee (Chairperson: Riyuichi Seino)

Manufacturing / Production technology Rule Subcommittee (Chairperson: Kotaro Aoki)

Procurement Rule Subcommittee (Chairperson: Tadashi Aikyo)

Quality Rule Subcommittee (Chairperson: Kouichi Fujiwara)

7. Revisions of terms and clarification of rules

-The scope of this standard is parts or raw materials constitute for products and shipped auxiliary raw materials with their products. Accordingly, it is necessary also to consider that shipped indirect materials with products as scope of this standard. In accordance with rules on the scope, terms and their definitions were revised in conformity to the latest "Defined Terms (2021-07-12)". Specific ancillary materials used as a term in the current standard was changed Specified indirect materials by this revision. However, previously defined parts or raw materials as Specific ancillary materials are the scope for this standard.

-On this revision, materials used on the current standard were changed to raw materials to correspond with the terms in Delivery Specifications (SASG: K60-03A).

-In order to make clear the group in charge of preparing and update the chemical substances control list, the Control group was modified the Environmental group.

-It was specified that a criterion for update of the chemical substances control list was GADSL, official regulations, and customers' self-imposed rules.

-In this standard, parts or raw materials which are not shipped with products are specified as out of the scope. Regarding using regulation substances included in materials, parts, and products from suppliers, in the Supplier quality manual opened to suppliers, it is mentioned to refer this standard (SASG: E50-03A). Since like this situation, the necessity to extend the scope of this standard up to indirect materials was discussed in Liaison Committee for Product Environment. The Chemical substances control list of this standard is prepared and update to be based on official regulations or customers' self-imposed rules applied to cars, construction equipment, and agricultural machines etc. for end products. Therefore, it was agreed in the liaison committee that the scope of this standard is parts or raw materials constitute for products as before. Furthermore, regarding rules of the scope, it was also agreed to discuss continuously in the liaison committee.

(Written on 2023-01-25)

8. Application of this standard about products of former Keihin Corporation, former Showa Corporation, and former Nissin Kogyo Co., Ltd.

Former Hitachi AMS and, former Keihin Corporation, former Showa Corporation, and former Nissin Kogyo Co., Ltd. (after this, call them the former three companies) stipulated respectively different chemical

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substances control ranks, although they are in conformity to official regulations and customers' self-imposed rules. Because the criterion stipulated was different, there were case of provided different tanks, although chemical substances were same. When this standard applies to existing development products of the former three companies, it is expected that there will be products which are difficult to conformity of this standard. In view of these situations, on condition that repeal of rules of the former three companies, or they were integrated into SASG in the future, liaison committees for product environment have discussed revision of this standard. On the other hand, NASG (A22-001, Details of Astemo Group Rules after 2022-04-01) was taken effect, it was prescribed the application of the former three companies' rules from 2022-04-01. By this notice, the existing development products on the former three companies will be able to continue to apply each company's rules. As the result, it was discontinued to write clearly in this standard that application conditions of this standard to former three companies' products and relationship between this standard and their rules.

(Written on 2023-01-25)

9. Modifications of criterion using on substances of environmental concern with Rank "D/P"

Suppliers have judged containing or not of substances of environmental concern with Rank "D/P" by the threshold regulated in this regulation (SASG: E50-03A) in handling of the Delivery specification of purchased item. When suppliers make judgments on the threshold to exceed or not, they need to also consider listed some notes in the Chemical substances control list. It is not quite a few suppliers make misjudgments on the threshold, because information is not necessarily enough to correctly judge on threshold. Therefore, the delay in operation for handling of the Delivery specification has sometimes occurred. To progress smoothly the operation for handling of the Delivery specification, it is revised as the regulation that suppliers just make judgments on the containing or not of substances of environmental concern with Rank "D/P" and report these. The Design Group shall make judgement on the validity of using the substances with Rank "D/P" reported from suppliers. The Design Group shall fill out "Reasons to Use Restricted Substances with Rank D/P" the results of judgement.

(Written on 2025-11-21)

10. Information sharing in the case of detection of Non-conformity at the judgement on conforming

When the products in charge contain substances of environmental concern, the Design Group needs to confirm that products conform to the latest regulations or customers' requirements as Preventive action. In the case of detecting Non-conformity, the Design group shares the information and does Corrective action with the Quality Assurance Group according to "Corrective and Preventive Actions (SASG: N70-01A)". The regulations of the 8th chapter were added to clear the role of Quality Assurance Groups and Design groups on above situations.

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11. Control rank specified the (Astemo) Control list

Since the enactment of SAS: K50-01A "Restriction of the use of substances of environmental concern", the basic policy for the regulations of control ranks on chemical substances have been the following.

- It has been based on GADSL.
- It has been adapted to the most severe requirements on the control ranks of self-restricted substances of customers.

In recent years, there have been many cases where some customers have set their control ranks severe in anticipation of laws and regulations (for example, SVHC is set to P rank at specified under EU REACH regulation), and there has been a concern that it would be difficult to select and procure parts and raw materials if they continued to "meet to the most severe requirements" as stated in the basic policy. Therefore, the recent setting of control ranks has not necessarily been "adapted to the most severe requirements".

If the control rank of GADSL is D rank but some customers have set it D/P rank or P rank, set the control rank to D/P and add note [3] (The substance shall be prohibited for the specific customer) to alert them, and list them in the substance group ZP " Rank "P" & "D/P" substances which are prohibited or restricted by the specific customer, selected ". Based on these, we reflect severe customer requirements and set the control rank based on GADSL.

(Written on 2025-11-21)