

GUIDELINE FOR RESTRICTED AND PROHIBITED SUBSTANCES

INTRODUCTION

This OPI represents the implementation of specific OEM, VC customer, global and regional legal stipulations/standards about the environment, hazardous substances, and the "Global Automotive Declarable Substance List (GADSL)" in Vibracoustic worldwide. This list therefore is part of this OPI and applies in its latest version at the time of use (<https://www.gadsl.org>).

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1. PURPOSE

To guarantee product safety and product quality, and to meet certification requirements, all relevant statutory regulations and laws including customer specific requirements shall be complied with. All materials must satisfy applicable laws, rules, regulations, and recommendations valid in the respective countries. [Vibracoustic must define the business regions and countries and share market information.](#) All materials, process engineering, component parts, packaging, and systems must comply with all applicable valid requirements regarding constituents and recyclability.

2. SCOPE

This OPI lists substances and substance classes which, to protect humans and the environment, are not allowed to be contained in materials and components, or which are only allowed to be contained if ecologically and economically equivalent, non-critical materials have been proven to be unavailable. A decision concerning their use shall be made after an assessment of the potential risks with due regard for the specific application.

This OPI is intended to provide suppliers, component managers, designers and material experts with a guideline for the selection of materials and the specification of manufacturing processes starting right from the preliminary development stage, and to ensure that the approving bodies (industrial safety and environmental protection departments) are provided with the information required for the evaluation of process and other materials.

With respect to its delivery or services, the supplier shall always comply with all the latest versions of applicable legal regulations regarding environmental protection, hazardous substances, dangerous goods, work safety, and transportation. The supplier confirms that it has read the environmental protection guidelines of Vibracoustic and will comply with their contents in all its activities.

3. ABBREVIATIONS

BPR	Biological Products regulation
CHemVerbotsV	Chemikalienverbotsverordnung
CMRT	Conflict Minerals Reporting Template
CoRAP	Community rolling Action Plan
D	Declarable
EC	European Community
ECCC	Environment and Climate Change Canada
ECHA	European Chemical Agency
ELV	End of Life Vehicle Directive
EMRT	Extended Minerals Reporting Template
EU	European Union
GADSL	Global Automotive declarable Substance List
KEMI:s PRIO	Swedish Chemicals Agency's Priority Setting Guide
KKDIK	Turkish REACh Registration, Evaluation, Authorization and Restriction of Chemicals
MSIHC	Manufacture, Storage, Import of Hazardous Chemicals
P	Prohibited
PBT	Persistent, Bio accumulative, and Toxic
REACh	Regulation, Evaluation Approval of Chemicals
RoHS	Restriction of Hazardous Substances
SIN	Substitute it now
SVHC	Substances of very high Concern
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
US	United States
US EPA	US Environmental Protection Agency
VC	Vibracoustic

4. LEGAL REQUIREMENTS FOR SUBSTANCES PREPARATIONS, MATERIALS, ARTICLES AND COMPONENTS

4.1 General Information

Substances and preparations subject to legal restrictions or prohibitions shall only be contained in supplied products/products used that are in accordance with these specifications. The supplier shall also be obliged to comply with the applicable internal standards and supply specifications of Vibracoustic and all currently applicable legal regulations concerning the prohibition of substances (e.g. ELV Directive) and restrictions (e.g. Annex XVII of the REACH Regulation). [This OPI and the current regulations, depending on market need to be contractual object between VC and its partners and part of the technical documentation as drawings, design agreements and design verification plan.](#)

4.1.1 Precautionary Measures

As a precautionary measure, the use of phthalates that are not yet regulated and have a chain length of up to 11 carbon atoms, branched and linear, should be avoided whenever suitable alternative substances are available. Based on ongoing activities to determine substance-specific data (e.g. CoRAP, US EPA Chemical Action Plan), more critical classifications or limitations are to be expected in the future for many of these phthalates.

As a precautionary measure, substances should be avoided that are not yet regulated in the automotive industry but are already subject to restrictions in other areas or industries due to their proven negative effect on humans and the environment and that are being discussed controversially in public. The SIN List is still far ahead of the European REACH process, but about one-third of the SIN Listed chemicals appear in some REACH process such as CoRAP (substance evaluation), or restricted to specific uses, they may already be on the Candidate List or even subject to authorization.

The use of biocides that are used for example for the treatment of renewable raw materials, which are finding increased use in the automotive industry, shall be avoided based on their potential hazards. If these substances cannot be avoided, their use shall be minimized.

4.2 Global Regulations

4.2.1 GADSL

Substances classified in GADSL as "D - Declarable" should be avoided, as such substances are already under observation by the automotive industry and a more severe reclassification as "P - Prohibited" cannot be excluded. For interior parts, the use of declarable substances, such as nickel and nickel compounds, shall be agreed on with the component manager. The substances listed in addition in Section 12 shall be dealt with in analogy.

If in US market with its legislative activities associated with US Green Chemistry – concrete prohibitions of substances are already scheduled and cast into law that will inevitably be adopted in the GADSL, the use of such substances shall be avoided. In the case of substances under discussion as well, preference shall be given to alternatives.

4.2.2 Responsible Minerals sourcing

If your company provides products that contain tin, tungsten, tantalum or gold submit the latest conflict minerals reporting template (CMRT) or products that contain mica or cobalt submit the latest extended minerals reporting template (EMRT) according to Policy 01-12.8-0089 "Responsible Sourcing of Minerals, Substances and Raw Materials", to be downloaded on the VC homepage.

4.2.3 Further regulations

In addition to any legal requirement, if applicable OEM and VC customer specific requirements regarding prohibited and restricted substances must be respected.

For new developments and carry over parts the usage of PFAS (Perfluoroalkyl and Polyfluoroalkyl Substances) is permitted.

PFAS means any chemical substance that includes at least one of these three structures:

- 1) R-(CF₂)-CF(R')R'', where both the CF₂ and CF moieties are saturated carbons
- 2) R-CF₂OCF₂-R', where R and R' can either be F, O, or saturated carbons
- 3) CF₃C(CF₃)R'R'', where R' and R'' can either be F or saturated carbons

4.3 Region Americas

4.3.1 Further regulations

The applicability of the recent US TSCA PBT final rules and ensure product compliance for all products including machinery and tooling.

Applicability of California Proposition 65

Applicability of US (state level) PFAS Regulations, as

Maine PFAS Regulation Act To Stop Perfluoroalkyl and Polyfluoroalkyl Substances Pollution (LD 1503, 130th Legislature)

Minnesota 116.943

Illinois PFAS Consumer Protection Law

Colorado HB22-1345

New Jersey S3177/A4758

North Carolina DEQ Action strategy for PFAS

Rhodes island Comprehensive PFAS BAN Act of 2023

Washington WAC 173-337

Applicability of ECCC Environment and Climate Change Canada

Applicability of the List of restricted Substances in Mexico

4.4 APAC and India

4.4.1 Further regulations

Applicability of MSIHC-rules List India

Applicability of China ELV

Applicability of GB/T 30512 - China Hazardous Materials in Automobiles

Applicability of Act on the Regulation of Manufacture and Evaluation of Chemical Substances Act N0 117 and Order for Enforcement of the Act on the Regulation of Manufacture and Evaluation of Chemical Substances Cabinet Order 202 (Japan)

4.5 Region Europe:

4.5.1 REACh Regulation (EC) No. 1907/2006

Vibracoustic requires that contractors are aware of their obligations under Regulation (EC) No. 1907/2006 (REACH), and that these obligations are fulfilled by them.

4.5.2 Regulations for substances listed in Annex XIV (Authorization List) of the REACh Regulation

In general, no substances listed in Annex XIV of Regulation 1907/2006/EC (REACH) shall be used during the new development of a component. The use of substances listed in Annex XIV that are no longer contained in the finished component but are needed to produce the component shall also be avoided in the case of new developments.

4.5.3 Regulations for Substances of very high concern (SVHC) in components, spare parts, accessories, and packaging

If the articles supplied contain more than 0,1 % by weight of substances of very high concern (SVHC) that are published in what is known as the SVHC candidate list, the contractor is required to automatically provide all information in accordance with Article 33 Section 1 of Regulation 1907/2006/EC on delivery. This also applies if such a substance is only adopted into the candidate list during the ongoing supply relationship. The information must be provided in writing by using IMDS (International Material Data System).

4.5.4 Regulations for Substances listed in Annex XVII (Restriction List) of the REACh Regulation

Articles must respect the conditions of restrictions for substances listed in Annex XVII of the REACH Regulation.

In general, no substances listed in Annex XVII of Regulation 1907/2006/EC (REACH) shall be used during the new development of a component. The use of substances listed in Annex XVII that are no longer contained in the finished component but are needed to produce the component shall also be avoided in the case of new developments.

4.5.5 Further regulations

Applicability of 2011/65 EU RoHS according to customer requirements

The specifications of Regulation (EU) No. 528/2012 (Biocides Regulation) shall be observed.

Applicability of Turkish KKDİK

Applicability of CHemVerbotsV

Applicability of KEMI:s PRIO Utfasning

5. RESPONSIBILITIES

List the actions and responsibilities according to the RACI* chart logic, including level of responsibility. Please include a flow chart presentation of the respective responsibilities.

- * **R**esponsible: Process owner, responsible to carry out the business process (implementation, execution)
- A**ccountable: Approver, responsible for the result of the business process (objectives, design, monitoring)
- C**onsulted: Experts; two-way communication
- I**nformed: Persons that need to be kept up-to-date; one-way communication

Task /Function	Material Compliance	Materials and Technology	Project Purchasing	SDE Preventive Quality	Application Team
Contractual agreement of this OPI for Suppliers /Framework agreement and Purchase Order	I	C	R		I
Implementation of this OPI in tech. docs, drawings, design agreements	I		I		R
Non-conforming parts / Supplier Quality Concerns	I		A	R	C
Customer directed Articles: Contractual agreement of this OPI/ non-conforming parts	I		A	R	C
Implementation of this OPI in tech. doc., specifications, new material developments	I	R	C		C

6. APPENDIX / ENCLOSURES

Additional information, notes, examples and forms which have to be used can be listed in the appendix.

No.	Type of Document	Title/Description	Enclosure
1	Policy	Responsible Sourcing of Minerals, Substances and Raw Materials	Policy01-12.8-0089
2	Global Procedure	Quality Assurance Measures for Procurement of purchased Parts	01-7.4-0007
3	OPI	IMDS Guidelines for Suppliers	OPI-01-7.2-0076
4	List	Link list for regional Substance Regulations	Li-01-12.8-0189

7. FURTHER DOCUMENTS

- REACH Annex XIV: <https://echa.europa.eu/authorisation-list>
- SVHC List: <https://echa.europa.eu/candidate-list-table>
- REACH Annex XVII: <https://echa.europa.eu/de/substances-restricted-under-reach>
- GADSL: <https://www.gadsl.org>
- Article 9 BPR EU: [EUR-Lex - 32012R0528 - EN - EUR-Lex \(europa.eu\)](https://eur-lex.europa.eu/lexUriCommisonDetail.do?uri=CELEX:32012R0528:EN:EUR-Lex)
- 2011/65 EU RoHS: [EUR-Lex - 32011L0065 - EN - EUR-Lex \(europa.eu\)](https://eur-lex.europa.eu/lexUriCommisonDetail.do?uri=CELEX:32011L0065:EN:EUR-Lex)
- California Prop. 65 [Proposition 65 - OEHHA \(ca.gov\)](https://oehha.ca.gov/proposition-65)
- ChemVerbotsV [ChemVerbotsV - nichtamtliches Inhaltsverzeichnis \(gesetze-im-internet.de\)](https://www.gesetze-im-internet.de/chemverbotsv/)
- KEMI:s PRIO Utfasning <https://www.kemi.se/prioguiden/english/start/prio-criteria-for-phase-out-substances-and-priority-risk-reduction-substances>
- List of restricted Substances in Mexico:
https://dof.gob.mx/nota_detalle.php?codigo=5608827&fecha=26/12/2020#gsc.tab=0
- SIN list: <https://chemsec.org/business-tool/sin-list/>
- MSIHC-rules List India: <https://dish.tn.gov.in/assets/pdf/HAZARDOUS%20CHEMICAL%20RULES.pdf>
- CoRAP: [Substance evaluation - CoRAP - ECHA \(europa.eu\)](https://echa.europa.eu/co-rap)
- US EPA Chemical action Plan:
[A Summary of All Chemical Action Plans Issued by EPA | US EPA](https://www.epa.gov/chemical-action-plans)
- Maine PFAS regulation: [getPDF.asp \(mainelegislature.org\)](https://www.maine.gov/legis/other/getPDF.asp)
- Turkish KKDİK: [Turkey Chemicals \(trade.gov\)](https://www.trade.gov/turkey-chemicals)
- Japanese Regulation 1: [化学物質の審査及び製造等の規制に関する法律 - 日本語 / 英語 - 日本法令外国語訳DBシステム \(japaneselawtranslation.go.jp\)](http://www.japaneselawtranslation.go.jp/law/show/?no=100&ref=idx)
- Japanese Regulation 2: [化学物質の審査及び製造等の規制に関する法律施行令 - 日本語 / 英語 - 日本法令外国語訳DBシステム \(japaneselawtranslation.go.jp\)](http://www.japaneselawtranslation.go.jp/law/show/?no=100&ref=idx)

8. DOCUMENTATION

Vibracoustic will keep this procedure on file.

In case of a revision the latest edition will be kept for at least 3 years after revision.