

Substance compliance requirements for Vaisala parts

Substance compliance requirements concerning mechanical and electronic parts supplied for Vaisala products

Revision History

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Substance compliance requirements for Vaisala parts

This document provides a description of the substance compliance requirements concerning mechanical and electronic parts supplied for Vaisala products.

1 Purpose and Scope

Purpose of this document is to raise awareness of the supplier's responsibility to comply with the applicable requirements. The applicable requirements may arise from national, federal, or international regulation or internal decisions by Vaisala ("Vaisala" referring to the entire Vaisala group, including its affiliates).

Mechanical and electronic parts supplied for Vaisala products, including commercially manufactured parts and built-to-spec parts using Vaisala drawings, must comply, at minimum, with the requirements described in this document. This document does not provide an exhaustive description of all the applicable requirements, and it is the supplier's responsibility to verify the applicability of, and its compliance with, the requirements.

2 Substance Restrictions by Regulatory Frameworks

In the table below, a summary of various regulatory frameworks and related substance restrictions is provided. More detailed information, such as the restriction thresholds and CAS numbers, is provided in the following sub-chapters.

Table 1. Summary of substance restrictions by regulatory frameworks

Geographical Scope	Regulatory Framework	Shorthand	Restricted Substances
European Union	Restriction of Hazardous Substances	RoHS	<ul style="list-style-type: none"> Lead Cadmium Mercury Hexavalent chromium Polybrominated biphenyls (PBB) Polybrominated diphenyl ethers (PBDE) Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)
European Union	Registration, Evaluation, Authorisation and Restriction of Chemicals	REACH	<ul style="list-style-type: none"> Substances on the Candidate List of Substances of Very High Concern for Authorisation (SVHCs), up-to-date list available on ECHA's website Substances restricted under Annex XVII, up-to-date list available on ECHA's website
United States	Toxic Substances Control Act	TSCA	<ul style="list-style-type: none"> Phenol, isopropylated phosphate (3:1) (PIP (3:1)) Decabromodiphenyl ether (DecaBDE) 2,4,6-tris(tert-butyl)phenol (2,4,6 TTBP) Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP)

2.1 EU Restriction of Hazardous Substances (RoHS)

The European Union's RoHS Directive (Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment) restricts certain substances in different categories of electrical and electronic equipment (EEE). Vaisala products belong to **category 9, industrial monitoring and control instruments**. Please note that the RoHS Directive includes the original act as well as any subsequent amendments (such as Commission Delegated Directive (EU) 2015/863).

The RoHS Directive restricts the following substances in electrical and electronic equipment:

- **Lead** (0,1 %)
- **Mercury** (0,1 %)
- **Cadmium** (0,01 %)
- **Hexavalent chromium** (0,1 %)
- **Polybrominated biphenyls (PBB)** (0,1 %)
- **Polybrominated diphenyl ethers (PBDE)** (0,1 %)
- **Bis(2-ethylhexyl) phthalate (DEHP)** (0,1 %)
- **Butyl benzyl phthalate (BBP)** (0,1 %)
- **Dibutyl phthalate (DBP)** (0,1 %)
- **Diisobutyl phthalate (DIBP)** (0,1 %)

These substances must not be present in parts supplied for Vaisala products in concentrations above the thresholds (value by weight in homogeneous materials) specified in the Directive, unless the application is exempted from the restriction by a valid RoHS exemption in the same category of EEE. Should the application benefit from an exemption, the supplier must communicate this to Vaisala (see section 3, *Providing substance compliance information to Vaisala*).

2.2 EU Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REACH (Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) encompasses several rules, obligations and requirements regarding substances and mixtures. The parts of REACH relevant to Vaisala parts are Authorisation and Restriction.

2.2.1 Candidate List of Substances of Very High Concern (SVHCs)

The Candidate List of Substances of Very High Concern for Authorisation includes substances that meet the criteria for authorisation under REACH Annex XIV. The list is updated twice a year with new substances, and substances will periodically be moved from the Candidate list to the Authorisation list.

An up-to-date list of Substances of Very High Concern can be found on European Chemical Agency's website: <https://echa.europa.eu/candidate-list-table>

Candidate List substances may be present in parts and materials supplied for Vaisala products. Whenever they are present in concentrations above 0,1 % weight by weight on article level, the

supplier must communicate this to Vaisala according to REACH Article 33(1) (see section 3, *Providing substance compliance information to Vaisala*).

Suppliers are strongly advised to phase out Candidate List substances from parts supplied to Vaisala to minimize future risks.

2.2.2 Annex XVII

REACH Annex XVII restricts the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles on the EU market. Conditions of restriction vary by substance and therefore restrictions are application-specific.

An up-to-date list of substances restricted under Annex XVII can be found on European Chemical Agency's website: <https://echa.europa.eu/fi/substances-restricted-under-reach>

Parts supplied for Vaisala products must not contain substances restricted under Annex XVII in concentrations above those specified in substance-specific conditions of restriction whenever those conditions concern the part itself. For the sake of clarity, should the conditions of restriction apply to the end product manufactured by Vaisala but not the part itself, Vaisala is responsible for identifying the restriction. However, to meet this requirement, Vaisala needs to have up-to-date information regarding materials restricted under Annex XVII used in the parts supplied by the supplier (see section 3, *Providing substance compliance information to Vaisala*).

2.3 US Toxic Substances Control Act (TSCA)

The Regulation of Persistent, Bioaccumulative, and Toxic Chemicals Under Section 6(h) of the Toxic Substances Control Act (Federal Regulations of the United States, Title 40 – Protection of Environment, Part 751) currently restricts or prohibits the use of five persistent, bioaccumulative and toxic (PBT) chemicals in products sold within the United States market. The prohibitions and restrictions concern articles in addition to chemicals and mixtures.

The following chemicals are currently regulated with the following dates and concentrations:

- **Phenol, isopropylated phosphate (3:1)** (PIP (3:1), prohibited as of Oct 31, 2024
- **Decabromodiphenyl ether** (DecaBDE), prohibited as of Jan 6, 2022
- **2,4,6-tris(tert-butyl)phenol** (2,4,6 TTBP), 0.3 % at product level as of Jan 6, 2026
 - only applies to raw TTBP and oil or lubricant additives
- **Hexachlorobutadiene** (HCBd), prohibited as of Mar 8, 2021
- **Pentachlorothiophenol** (PCTP), 1 % at product level as of Jan 6, 2022

These substances must not be present in parts supplied for Vaisala products in concentrations at or above the thresholds specified in the regulation.

3 Providing substance compliance information to Vaisala

Use of RoHS exemptions (when applicable), presence of REACH SVHCs (when applicable), and information regarding materials restricted under Annex XVII of REACH (when applicable) must be communicated to Vaisala. The communication may take place in electronic form, or the information may be presented on the supplier data sheet. The information must also be provided upon request by Vaisala or a third-party service provider contracted by Vaisala to collect such information, including compliance with applicable substance restrictions not limited to RoHS exemptions or REACH SVHCs.



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Notice

The laws and regulations referenced in this document are subject to change. The requirements concerning parts supplied for Vaisala products do not depend on the updating cycle of this document but are the supplier's responsibility to actively follow-up on, whenever they are based on such laws and regulations. Supplied parts must therefore fulfill all the requirements set forth by the laws and regulations valid at the time of purchase.