



# Alfa Laval Restricted Substance List

*Formerly known as the Alfa Laval Group's Black and Grey List*

## Introduction

The Alfa Laval Restricted Substance List (AL RSL) provides information about restrictions on the presence of substances in Alfa Laval Groups processes and products (materials, components, and parts of our products) as well as packaging. The list includes legislations and global agreement deemed relevant for our products and area of business. This requirement is in addition to any local legislations. Any presence of substances regulated in the listed legislations must be reported to Alfa Laval for further evaluation.

The Alfa Laval Restricted Substance List supersedes Alfa Laval Group Black and Grey List.

The AL RSL list is divided into three different categories:

- **Banned** substances are substances which are prohibited.<sup>1</sup>
- **Restricted** substances are prohibited in certain applications relevant to the Alfa Laval Group. A restricted substance may be used if the application is unmistakably outside the scope of the legislation in question.
- **Risk substances**<sup>2</sup> are substances which presence must be evaluated and monitored. This includes substances currently being evaluated for regulations applicable to the Banned or Restricted categories, or substances with legal requirements for reporting and/or monitoring. Responsible product owners must be aware of the associated legal notification requirements and ensure legal compliance to these requirements. They shall also evaluate the potential risks with continued use of a risk substances.

1. Prohibited to use, or put on the market, regardless of application. Thresholds might apply.  
2. Category formerly known as "Substance of Concern"

## Alfa Laval Restricted Substance List

### The legislative list

#### Banned

- EU Directive 2013/59/Euratom on ionizing radiation
- EU Regulation 2024/590/EC on substances that deplete the ozone layer, Annex I
- Stockholm Convention. Substances listed in Annex A: Elimination
- EU Regulation 2019/1021/EC on persistent organic pollutants Annex I, POP
- EU Regulation 1907/2006/EC REACH Annex XIV
- EU Regulation 1907/2006/EC REACH Annex XVII, entries 1, 6, 24-26, 68

#### Restricted

- EU Regulation 2024/573/EC on fluorinated greenhouse gases
- Stockholm Convention. Substances listed in Annex B: Restriction
- EU Regulation 2019/1021/EC on persistent organic pollutants Annex II, POP
- EU Regulation 649/2012/EC concerning the import and export of hazardous chemicals, PIC
- EU Regulation 1907/2006/EC REACH Annex XVII, entries 2, 4, 5, 12-21, 23, 31-38, 41, 43, 45, 46, 47, 49, 50, 59-63, 70, 71, 74, 76
- EU Directive 2011/65/EU RoHS 2
- EU Regulation 2023/1542/EC on batteries and waste batteries
- EU Regulation 2025/40 on packaging and packaging waste
- Resolution MEPC 379(80) - IMO regulation 2023 Guidelines for the development of the Inventory of Hazardous Materials
- EU Regulation 1257/2013/EC on ship recycling and amending
- EU 2017/852 Regulation on mercury
- US Toxic Substances Control Act Section 6(h): Regulation of Persistent, Bioaccumulative, and Toxic Chemicals Under TSCA Section 6(h)

#### Risk Substances

- Stockholm Convention: Proposed POP Candidates
- US Frank Wall Street Reform and Consumer Protection Act, Section 1502
- REACH: Current recommendations for inclusion in the Authorisation List
- REACH: Candidate List of Substances of Very High Concern for Authorisation
- REACH: Proposals to identify Substances of Very High Concern (submitted)
- REACH: Submitted restrictions under consideration (if proposed restriction is applicable to Banned or Restricted categories)
- EU Regulation 2021/821 Dual Use (recast)
- EU Regulation 2024/590/EC on substances that deplete the ozone layer, Annex II

*For detailed information on the specific substances in the above regulations, please request the associated supporting document "AL RSL – individual substances" (document number CRC-22-002 rev 3.0).*

## Alfa Laval Restricted Substance List

### Changes from previous revision of AL RSL

This revision is a minor update mainly to include the new substances added to the EU REACH Candidate List, as communicated by the European chemical agency (ECHA) on June 25, 2025. A summary of relevant changes is given below.

#### The legislative list, updates:

- Packaging Directive 94/62/EC has been replaced by Packaging Regulation 2025/40

#### Updated information on substances and restrictions

There are three new substances added to the EU REACH Candidate List, see below. These three substances are classified as "Risk Substances" in Alfa Laval's Restricted Substance List (RSL).

- 1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane (CAS No: 17928-28-8; EC No: 241-867-7)
- Decamethyltetrasiloxane (CAS No: 141-62-8; EC No: 205-491-7)
- Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-{[4-chloro-6-({2-[(4-fluoro-6-{[4-(vinylsulfonyl)phenyl]amino}-1,3,5-triazine-2-yl)amino]propyl}amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl)diazenyl]-5-methoxyphenyl)diazenyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51 (CAS No: -; EC No: 466-490-7)

The below substance has been withdrawn from the EU REACH Candidate List

- 1,1,1,3,5,5,5-heptamethyltrisiloxane (CAS No: 1873-88-7; EC No: 217-496-1)

*REACH Candidate List of Substances of Very High Concern for Authorisation (SVHC)*

Link: [All news - ECHA \(europa.eu\)](https://european-chemical-agency.europa.eu/all-news)

Applicable updates have been included in the "AL RSL – individual substances" (document number CRC-22-002 rev 3.1).