

# Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: **Azeclair®**

Version: 10

Revision: 2024.03.07

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

|            |                    |
|------------|--------------------|
| Trade name | <b>Azeclair®</b>   |
| CAS number | <b>477773-67-4</b> |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                             |   |
|-----------------------------|---|
| <b>Recommended Use</b>      | SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites<br>SU21 Consumer uses: Private households/general public/consumers<br>SU22 Professional uses |
| <b>Uses advised against</b> | No information available  |
| <b>Product category</b>     | Not determined  |
| <b>Process category</b>     | Not determined  |

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier**  
CORUM INC.  
6FL., No.360, Ruei Guang Rd.,  
Neihu Dist., Taipei 114729, Taiwan  
**Further information obtainable from**  
[marketing.support@corum.com.tw](mailto:marketing.support@corum.com.tw)

### 1.4 Emergency telephone number

|                             |  |
|-----------------------------|--|
| <b>Company phone number</b> | CORUM Tel. 886-2-8751-6060<br>Fax. 886-2-8751-6363 |
|-----------------------------|--|

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**  
Based on available data, the classification criteria are not met.

### 2.2 Label elements

**Label according to Regulation (EC) No 1272/2008**  
Not applicable

### 2.3 Other hazards

#### **Results of PBT and vPvB assessment**

##### **PBT:**

Based on available data, the ingredients of this mixture do not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

##### **vPvB:**

Based on available data, the ingredients of this mixture do not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

#### **Determination of endocrine-disrupting properties**

The product does not contain ingredients with endocrine-disrupting properties for humans.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances**

Not applicable

3.2 **Mixtures**

Composition/information on ingredients

| Name                          | Chemical name      | Identification                                    | Classification   | SCLs,<br>M-Factors | %      |
|-------------------------------|--------------------|---|--|--------------------|--------|
| COMPONENT                     |                    |   |  |                    |        |
| Potassium Azeloyl Diglycinate | -                  | (CAS No.)<br>477773-67-4<br>(EC No.)<br>686-756-8 | Eye Irrit. 2 H319<br>Skin Irrit. 2 H315                | -                  | 28-30% |
| Water                         | -                  | (CAS No.)<br>7732-18-5<br>(EC No.)<br>231-791-2   | Not Classified   | -                  | 68-72% |
| PRESERVATIVE                  |                    |   |  |                    |        |
| 1,2 Hexanediol                | DL-hexane-1,2-diol | (CAS No.)<br>6920-22-5<br>(EC No.)<br>230-029-6   | Eye Irrit. 2 H319                                      | -                  | 0.1-1% |
| Phenoxyethanol                | 2-phenoxyethanol   | (CAS No.)<br>122-99-6<br>(EC No.)<br>204-589-7    | Acute Tox. 4 H302<br>Eye Dam. 1 H318<br>STOT SE 3 H335 | -                  | 0.1-1% |
| Ethylhexylglycerin            | -                  | (CAS No.)<br>70445-33-9<br>(EC No.)<br>615-116-2  | Eye Dam. 1 H318<br>Aquatic Chronic 3 H412              | -                  | <0.1%  |

## SECTION 4: FIRST AID MEASURES

4.1 **Description of first aid measures**

## General information

No special measures required.

## After inhalation

Supply fresh air; consult a doctor in case of complaints.

## After skin contact

Generally the product does not irritate the skin. Wash with water and soap.

## After eye contact

Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

## After swallowing

Induce vomiting, if person is conscious. Seek medical help.

4.2 **Most important symptoms and effects, both acute and delayed**

## Symptoms

No further relevant information available.

4.3 **Indication of any immediate medical attention and special treatment needed**

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**Note to physicians**

No further relevant information available.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media**

Sand, carbon dioxide, foam

**Unsuitable extinguishing media**

No further relevant information available.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

**Protective equipment:**

Wear full firefighting turn-out gear (full bunker gear)

Wear self-contained breathing apparatus with facepiece.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Not required

### 6.2 Environmental precautions

Prevent spill of product to reach sewage system or any water course.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precaution for safe handling

**Advice on safe handling**

No special measures required.

Avoid ingestion, inhalation, skin and eye contact.

**Information about fire - and explosion protection:**

No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions**

Store in tightly closed packings.

Protect from contacting with light, heat and moisture.

**Incompatible materials**

None known based on information supplied.

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**Storage class (VbF)**

No

**Requirements to be met by storerooms and receptacles**

No special measures required.

**Information about storage in common storage facility**

**Further information about storage conditions**

None

**7.3 Specific end use(s)**

No further relevant information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace**

**Exposure limits**

At this time, no TLV or limit value has been established, even though this material may produce adverse health effects. Airborne concentrations must be maintained as low as is practically possible and occupational exposure must be kept to a minimum.

**DNEL**

Not determined

**PNEC**

Not determined

**Additional information**

The valid lists during this review were used as a basis.

**8.2 Exposure controls**

**Appropriate engineering controls**

Ensure that eyewash and safety showers are in close proximity to work location. Good general ventilation is recommended for handling the product. No further data; see section 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures**

Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

**Personal protective equipment**

**Respiration protection**

Not required.

**Hands protection**

Protective gloves.



The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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|   |   |
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| <b>Penetration time of glove material</b> | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| <b>Eye protection</b>                     | Safety goggles.   |
| <b>General protective measure</b>         | Avoid contact with the eyes and skin.   |
| <b>General hygiene measure</b>            | The usual precautionary measures are to be adhered to when handling chemicals.  |
| <b>Environmental exposure controls</b>    | No further relevant information available.  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>Physical State</b>                                   | Fluid   |
| <b>Appearance</b>                                       | Fluid   |
| <b>Color</b>  | Clear pale yellow or colorless                |
| <b>Odor</b>   | Odorless                                      |
| <b>Odor threshold</b>                                   | Not determined                                |
| <b><u>Property</u></b>                                  |   |
| <b>pH value</b>   | 6.5 – 7.5                                     |
| <b>Melting point/Melting range</b>                      | Not determined                                |
| <b>Boiling point/Boiling range</b>                      | <100°C  |
| <b>Flash point</b>                                      | Not applicable                                |
| <b>Flammability (solid, gaseous)</b>                    | Not applicable                                |
| <b>Ignition temperature</b>                             | Not determined                                |
| <b>Decomposition temperature</b>                        | Not determined                                |
| <b>Self-igniting</b>                                    | Not determined                                |
| <b>Danger of explosion</b>                              | Product does not present an explosion hazard. |
| <b>Explosion limit</b>                                  |   |
| <b>Lower</b>  | Not determined                                |
| <b>Upper</b>  | Not determined                                |
| <b>Oxidizing properties</b>                             | Not determined                                |
| <b>Explosive properties</b>                             | Not determined                                |
| <b>Vapor pressure</b>                                   | Not determined                                |
| <b>Vapor density</b>                                    | Not determined                                |
| <b>Relative density</b>                                 | Not determined                                |
| <b>Evaporation rate</b>                                 | Not determined                                |
| <b>Solubility</b>                                       | Fully miscible in water                       |
| <b>Partition coefficient (n-octanol/water at 25 °C)</b> | Not determined                                |
| <b>Kinematic viscosity</b>                              | Not applicable                                |
| <b>Dynamic viscosity</b>                                | Not applicable                                |

### 9.2 Other information

|                              |                |
|------------------------------|----------------|
| <b>Surface tension</b>       | Not applicable |
| <b>Dissociation constant</b> | Not applicable |
| <b>Granulometry</b>          | Not applicable |

### Information with regard to physical hazard classes

|  |      |
|--|------|
| <b>Explosives</b>                                    | Void |
| <b>Flammable Gases and Chemically Unstable Gases</b> | Void |

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|  |      |
|--|------|
| Flammable Aerosols   | Void |
| Oxidising Gases  | Void |
| Gases Under Pressure   | Void |
| Flammable Liquids  | Void |
| Flammable Solids   | Void |
| Self-reactive Substances and Mixtures                                    | Void |
| Pyrophoric Liquids   | Void |
| Pyrophoric Solids  | Void |
| Self-heating Substances and Mixtures                                     | Void |
| Substances and Mixtures which in contact with water emit flammable gases | Void |
| Oxidising Liquids  | Void |
| Oxidising Solids   | Void |
| Organic Peroxides  | Void |
| Substances and Mixtures corrosive to Metals                              | Void |
| Desensitized Explosives  | Void |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

The product is stable under ordinary condition.

#### **Thermal decomposition/conditions to be avoided**

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Air, light, heat

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| Name                  | Potassium Azeloyl Diglycinate<br>CAS:477773-67-4   | Water<br>CAS:7732-18-5 | 1,2 Hexanediol<br>CAS: 6920-22-5                                   | Phenoxyethanol<br>CAS:122-99-6 | Ethylhexylglycerin<br>CAS:70445-33-9 |
|-----------------------|--|------------------------|--|--------------------------------|--------------------------------------|
| <b>Acute toxicity</b> | The mean LD50 is equal to 3,902.06 mg/kg bw which is > 2,000 mg/kg bw. It is not classified for acute toxicity | Not Classified         | *Based on available data, the classification criteria are not met. | *Acute Tox. 4                  | Not Classified                       |

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|  |  |                |  |                |                |
|--|--|----------------|--|----------------|----------------|
|  | according to the CLP classification.   |                |  |                |                |
| <b>Skin corrosion/irritation</b>                   | No irritant effect (tested at 160µl pure/48 hours)                                     | Not Classified | Skin corrosion/irritation: non-irritant                            | Not Classified | Not Classified |
| <b>Serious eye damage/irritation</b>               | Slightly irritant (dilution at 10%)  | Not Classified | *Eye Irrit. 2  | *Eye Dam. 1    | *Eye Dam. 1    |
| <b>Respiratory tract</b>                           | Not determined   | Not Classified | Not determined   | Not Classified | Not Classified |
| <b>Respiratory/skin sensitization</b>              | The product has a very good skin compatibility and does not show a sensitizing effect. | Not Classified | *Based on available data, the classification criteria are not met. | Not Classified | Not Classified |
| <b>Toxicokinetics, metabolism and distribution</b> | Not determined   | Not Classified | Not determined   | Not Classified | Not Classified |
| <b>Repeated dose toxicity</b>                      | Not determined   | Not Classified | *Based on available data, the classification criteria are not met. | Not Classified | Not Classified |
| <b>Germ Cell mutagenicity</b>                      | Non mutagenic and Non pro-mutagenic (dilution at 28-32%)                               | Not Classified | *Based on available data, the classification criteria are not met. | Not Classified | Not Classified |
| <b>Carcinogenicity</b>                             | *Based on available data, the classification criteria are not met.                     | Not Classified | Not determined   | Not Classified | Not Classified |
| <b>Reproductive toxicity</b>                       | *Based on available data, the classification criteria are not met.                     | Not Classified | Based on available data, the classification criteria are not met.  | Not Classified | Not Classified |
| <b>STOT-single exposure</b>                        | Not determined   | Not Classified | Not Classified   | *STOT SE 3     | Not Classified |
| <b>STOT-repeated exposure</b>                      | Not determined   | Not Classified | Not Classified   | Not Classified | Not Classified |
| <b>Aspiration hazard</b>                           | Not determined   | Not Classified | Not Classified   | Not Classified | Not Classified |

\*from ECHA webpage registration data

11.2 Information on other hazards**Endocrine disrupting properties**

Substance is not listed.

## SECTION 12: ECOLOGICAL INFORMATION

| Name                                     | Potassium Azeloyl Diglycinate<br>CAS:477773-67-4 | Water<br>CAS:7732-18-5                     | 1,2 Hexanediol<br>CAS: 6920-22-5  | Phenoxyethanol<br>CAS:122-99-6  | Ethylhexylglycerin<br>CAS:70445-33-9 |
|--|--|--|---|---|--------------------------------------|
| <b>12.1 Toxicity</b><br>Aquatic toxicity | No further relevant information available.       | No further relevant information available. | *Study reports have been available for consideration in respect of acute tests with fish, invertebrates, algae and micro- | *The most sensitive reliable acute aquatic value with a standard test species is an LC50 of 344 mg/L (fish). The most | *Aquatic Chronic 3                   |

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|  |   |   |   |   |   |
|--|---|---|---|---|---|
|  |   |   | organism. As in all studies up to the highest tested concentration of at least 100 mg/l but also above no effects were seen, no hazard was identified and consequently no PNECs for the environment were derived.   | sensitive reliable chronic toxicity value is a NOEC of 9.43 mg/L (Daphnia). Thus, the substance is not classified according to EU GHS, or according to DSD/DPD.         |   |
| <b>12.2 Persistence and degradability</b>      | Predicted to be readily biodegradable (ECOSAR)                  | No further relevant information available.                      | *The substance is readily biodegradable. Thus, no further degradation tests (biotic or abiotic) are necessary. The substance is considered rapidly degradable in the environment. No persistence of the substance in the environment is expected.   | *Readily biodegradable.   | No further relevant information available.                      |
| <b>12.3 Bioaccumulative potential</b>          | No further relevant information available.                      | No further relevant information available.                      | *The substance has a low volatility under environmental conditions (estimated Henry's law constant: 0.0411 Pa · m <sup>3</sup> /mol). No information about the adsorption/desorption to soil is available, but as the substance has a low logKow (0.58 at 25°C) it is expected that the substance is mobile in soil. Due to the low log Kow, bioaccumulation in aquatic or terrestrial species is not expected. | *2-phenoxyethanol exhibits a low bioaccumulation potential (log Kow 1.6) which is supported by the calculation of the BCF of 2-phenoxyethanol yielding a value of 0.35. | No further relevant information available.                      |
| <b>12.4 Mobility in soil</b>                   | No further relevant information available.                      | No further relevant information available.                      | No further relevant information available.  | No further relevant information available.  | No further relevant information available.                      |
| <b>12.5 Results of PBT and vPvB assessment</b> | <b>PBT:</b><br>Not applicable<br><b>vPvB:</b><br>Not applicable | <b>PBT:</b><br>Not applicable<br><b>vPvB:</b><br>Not applicable | <b>PBT:</b><br>Not applicable<br><b>vPvB:</b><br>Not applicable   | <b>PBT:</b><br>Not applicable<br><b>vPvB:</b><br>Not applicable   | <b>PBT:</b><br>Not applicable<br><b>vPvB:</b><br>Not applicable |



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|   |   |   |   |   |   |
|---|---|---|---|---|---|
| <b>12.6 Endocrine disrupting properties</b> | The product does not contain substances with endocrine disrupting properties. | The product does not contain substances with endocrine disrupting properties. | The product does not contain substances with endocrine disrupting properties. | The product does not contain substances with endocrine disrupting properties. | The product does not contain substances with endocrine disrupting properties. |
| <b>12.7 Other adverse effects</b>           | No further relevant information available.                                    | No further relevant information available.                                    | No further relevant information available.                                    | No further relevant information available.                                    | No further relevant information available.                                    |

\*from ECHA webpage registration data

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation

Observe community, national or regional regulations for waste handling and treatment.

#### European waste catalogue HP4

Irritant - skin irritation and eye damage

### 13.2 Uncleaning packaging

#### Recommendation

Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

#### ADR/RID

Not applicable

#### ADN

Not applicable

#### IMDG

Not applicable

#### IATA

Not applicable

### 14.2 UN proper shipping name

#### ADR/RID

Not applicable

#### ADN

Not applicable

#### IMDG

Not applicable

#### IATA

Not applicable

### 14.3 Transport hazard class(es)

#### ADR/RID

Not applicable

#### ADN

Not applicable

#### IMDG

Not applicable

#### IATA

Not applicable

### 14.4 Packing group

#### ADR/RID

Not applicable

#### ADN

Not applicable

#### IMDG

Not applicable

#### IATA

Not applicable

### 14.5 Environmental hazard

#### Marine pollutant

No

### 14.6 Special precautions for user

#### Special precaution for user

Not applicable

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## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

## 14.8 ICAO/IATA – DGR

Not regulated as dangerous good.

## 14.9 Maritime transport in bulk according to

IMO instruments

Not applicable

UN "Model Regulation"

Not applicable

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safe, health and environmental regulations/legislation specific for the substance or mixture

| Name   | Potassium<br>Azeloyle<br>Diglycinate<br>CAS:477773-67-4 | Water<br>CAS:7732-18-5 | 1,2 Hexanediol<br>CAS: 6920-22-5 | Phenoxyethanol<br>CAS:122-99-6 | Ethylhexylglycerin<br>CAS:70445-33-9 |
|--|---|------------------------|----------------------------------|--------------------------------|--------------------------------------|
| Inventory - United States - Toxic Substances Control Act (TSCA)    | N   | Y                      | Y                                | Y                              | N                                    |
| Inventory - Canada - Domestic Substances List (DSL)                | N   | Y                      | N                                | Y                              | Y                                    |
| Inventory - Canada - Non-Domestic Substances List (NDSL)           | N   | N                      | Y                                | N                              | N                                    |
| Inventory - Canada - Revised In Commerce List (R-ICL)              | N   | N                      | N                                | N                              | N                                    |
| ECHA Inventory of substances                                       | Y   | Y                      | Y                                | Y                              | Y                                    |
| Japan Existing and New Chemical Substances (ENCS)                  | N   | N                      | Y                                | Y                              | Y                                    |
| Inventory of Existing Chemical Substances in China (IECSC)         | N   | Y                      | Y                                | Y                              | Y                                    |
| Korean Existing and Evaluated Chemical Substances (KECL)           | N   | Y                      | Y                                | Y                              | Y                                    |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | N   | Y                      | Y                                | Y                              | Y                                    |
| Australian Inventory of  | N   | Y                      | Y                                | Y                              | Y                                    |

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| Industrial Chemicals (AIC)                      |   |   |   |   |   |
| New Zealand Inventory of Chemicals              | N | Y | Y | Y | Y |
| TCSI - Taiwan Chemical Substance Inventory      | Y | Y | Y | Y | Y |
| OECD - List of High Production Volume Chemicals | N | Y | N | Y | N |

Y : listed, N : not listed, E : exempted

## Directive 2004/42/EC

### Seveso category

Substance is not listed.

## Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed.

## Regulation (EU) 2019/1148

### Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

## Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

## Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

## Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential)

Substance is not listed.

## National regulations

### Other regulations, limitations and prohibitive regulations

Not determined

## Substances of very high concern (SVHC) according to REACH, Article 59(10)

Substance is not listed.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of CORUM Inc. It relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. CORUM Inc. assumes no legal responsibility for use of or reliance upon this information.

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## Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

GHS: Globally Harmonized System of Classification and Labeling Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstract Service (division of the American Chemical Society)

VbF: Ordinance on the storage of combustible liquids, Austria

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT: Specific Target Organ Toxicity

ADR: Agreement on Dangerous Goods by Road

RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

## Sources

Own data from manufacture

Chemical safety report according to REACH registration dossier