

Creation Date 19-Nov-2009

Revision Date 22-Mar-2024

Revision Number 2

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

### 1.1. Product identifier

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Description:</b>      | <b>1,2-Propanediol</b> |
| <b>Cat No. :</b>                 | <b>C22087</b>          |
| <b>Synonyms</b>                  | Propylene glycol       |
| <b>CAS No</b>                    | 57-55-6                |
| <b>EC No</b>                     | 200-338-0              |
| <b>Molecular Formula</b>         | C3 H8 O2               |
| <b>REACH registration number</b> | -                      |

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

|                                       |   |
|---------------------------------------|---|
| <b>Recommended Use</b>                | Laboratory chemicals.   |
| <b>Sector of use</b>                  | SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites    |
| <b>Product category</b>               | PC21 - Laboratory chemicals   |
| <b>Process categories</b>             | PROC15 - Use as a laboratory reagent  |
| <b>Environmental release category</b> | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| <b>Uses advised against</b>           | No Information available  |

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

#### Company

Thermo Fisher (Kandel) GmbH  
Erlenbachweg 2, 76870 Kandel, Germany  
Tel: +49 (0) 721 84007 280  
Fax: +49 (0) 721 84007 300

**Swiss distributor** - Fisher Scientific AG  
Neuhofstrasse 11, CH 4153 Reinach  
Tel: +41 (0) 56 618 41 11  
<https://www.fishersci.ch/ch/en/customer-help-support/forms/email-us.html>

#### E-mail address

begel.sdsdesk@thermofisher.com

### 1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:  
Tox Info Suisse Emergency Number: **145 (24hr)**  
Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)  
Chemtrec (24h) Toll-Free: 0800 564 402  
Chemtrec Local: +41-43 508 20 11 (Zurich)

## SECTION 2: HAZARDS IDENTIFICATION

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## 2.1. Classification of the substance or mixture

### CLP Classification - Regulation (EC) No 1272/2008

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

Based on available data, the classification criteria are not met

#### Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements

None required

## 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component       | CAS No  | EC No             | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------------|---------|-------------------|----------|---|
| 1,2-Propanediol | 57-55-6 | EEC No. 200-338-0 | <=100    | -   |

REACH registration number

-

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

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|   |  |
|---|--|
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.              |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Get medical attention immediately if symptoms occur.   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. |
| <b>Self-Protection of the First Aider</b> | No special precautions required.   |

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

No information available.

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

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

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

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment as required. Ensure adequate ventilation.

### **6.2. Environmental precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment/face protection.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

**Technical Rules for Hazardous Substances (TRGS) 510**  
**Storage Class (LGK) (Germany)**

Storage Class/LGK 10

**Switzerland - Storage of hazardous substances**

Storage class - SC 10/12  
<https://www.kvu.ch/de/themen/stoffe-und-produkte>  
<https://www.kvu.ch/fr/themes/substances-et-produits>  
<https://www.kvu.ch/it/temi/sostanze-e-prodotti>

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

| Component       | European Union | The United Kingdom   | France | Belgium | Spain |
|-----------------|----------------|--|--------|---------|-------|
| 1,2-Propanediol |                | STEL: 450 ppm 15 min<br>STEL: 1422 mg/m <sup>3</sup> 15 min<br>STEL: 30 mg/m <sup>3</sup> 15 min<br>TWA: 150 ppm 8 hr<br>TWA: 474 mg/m <sup>3</sup> 8 hr<br>TWA: 10 mg/m <sup>3</sup> 8 hr |        |         |       |

| Component       | Austria | Denmark | Switzerland | Poland                                 | Norway  |
|-----------------|---------|---------|-------------|--|---|
| 1,2-Propanediol |         |         |             | TWA: 100 mg/m <sup>3</sup> 8 godzinach | TWA: 25 ppm 8 timer<br>TWA: 79 mg/m <sup>3</sup> 8 timer<br>STEL: 37.5 ppm 15 minutter. value calculated<br>STEL: 118.5 mg/m <sup>3</sup> 15 minutter. value calculated |

| Component       | Bulgaria | Croatia  | Ireland  | Cyprus | Czech Republic |
|-----------------|----------|--|--|--------|----------------|
| 1,2-Propanediol |          | TWA-GVI: 150 ppm 8 satima.<br>TWA-GVI: 474 mg/m <sup>3</sup> 8 satima. total vapor and particles | TWA: 10 mg/m <sup>3</sup> 8 hr. particulates<br>TWA: 150 ppm 8 hr. total vapour and particulates |        |                |

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|  |  |   |  |  |  |
|--|--|---|--|--|--|
|  |  | TWA-GVI: 10 mg/m <sup>3</sup> 8 satima. particles | TWA: 470 mg/m <sup>3</sup> 8 hr. total vapour and particulates<br>STEL: 1410 mg/m <sup>3</sup> 15 min<br>STEL: 30 mg/m <sup>3</sup> 15 min<br>STEL: 450 ppm 15 min |  |  |
|--|--|---|--|--|--|

| Component       | Latvia                   | Lithuania                     | Luxembourg | Malta | Romania |
|-----------------|--------------------------|-------------------------------|------------|-------|---------|
| 1,2-Propanediol | TWA: 7 mg/m <sup>3</sup> | TWA: 7 mg/m <sup>3</sup> IPRD |            |       |         |

| Component       | Russia                   | Slovak Republic | Slovenia | Sweden | Turkey |
|-----------------|--------------------------|-----------------|----------|--------|--------|
| 1,2-Propanediol | MAC: 7 mg/m <sup>3</sup> |                 |          |        |        |

## Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                           | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| 1,2-Propanediol<br>57-55-6 ( ≤100 ) |                                  |                                     | DNEL = 10mg/m <sup>3</sup>         | DNEL = 168mg/m <sup>3</sup>           |

## Predicted No Effect Concentration (PNEC)

See values below.

| Component                           | Fresh water    | Fresh water sediment        | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture)     |
|-------------------------------------|----------------|-----------------------------|--------------------|------------------------------------|------------------------|
| 1,2-Propanediol<br>57-55-6 ( ≤100 ) | PNEC = 260mg/L | PNEC = 572mg/kg sediment dw | PNEC = 183mg/L     | PNEC = 20000mg/L                   | PNEC = 50mg/kg soil dw |

| Component                           | Marine water  | Marine water sediment        | Marine water Intermittent | Food chain | Air |
|-------------------------------------|---------------|------------------------------|---------------------------|------------|-----|
| 1,2-Propanediol<br>57-55-6 ( ≤100 ) | PNEC = 26mg/L | PNEC = 57.2mg/kg sediment dw |                           |            |     |

## 8.2. Exposure controls

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

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## Hand Protection

Protective gloves

| Glove material  | Breakthrough time | Glove thickness | EU standard    | Glove comments   |
|-----------------|-------------------|-----------------|----------------|--|
| Nitrile rubber  | > 480 minutes     | 0.28 mm         | Level 6 EN 374 | As tested under EN374-3 Determination of Resistance to Permeation by Chemicals |
| Neoprene gloves | > 480 minutes     | 0.38 mm         |                |  |
| Viton (R)       | > 480 minutes     | 0.3 mm          |                |  |

## Skin and body protection

Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

## Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## Large scale/emergency use

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** Particle filter

## Small scale/Laboratory use

Maintain adequate ventilation

## Environmental exposure controls

No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|   |   |  |
|---|---|--|
| Physical State                          | Viscous liquid Liquid                             |  |
| Appearance                              | Clear Colourless                                  |  |
| Odor                                    | Odorless  |  |
| Odor Threshold                          | No data available                                 |  |
| Melting Point/Range                     | -60 °C / -76 °F                                   |  |
| Softening Point                         | No data available                                 |  |
| Boiling Point/Range                     | 187 °C / 368.6 °F                                 |  |
| Flammability (liquid)                   | No data available                                 |  |
| Flammability (solid,gas)                | Not applicable                                    | Liquid                                   |
| Explosion Limits                        | <b>Lower</b> 2.5 vol %<br><b>Upper</b> 12.6 vol % |  |
| Flash Point                             | 99 °C / 210.2 °F                                  | <b>Method -</b> No information available |
| Autoignition Temperature                | 400 °C / 752 °F                                   |  |
| Decomposition Temperature               | No data available                                 |  |
| pH                                      | 6.5-7.5   | 100g/l aq. sol                           |
| Viscosity                               | 45 mPa.s at 20 °C                                 |  |
| Water Solubility                        | Completely soluble                                |  |
| Solubility in other solvents            | No information available                          |  |
| Partition Coefficient (n-octanol/water) |   |  |
| Component                               | <b>log Pow</b>                                    |  |
| 1,2-Propanediol                         | -0.9  |  |
| Vapor Pressure                          | 0.13 mbar @ 20 °C                                 |  |
| Density / Specific Gravity              | 1.03 - 1.04                                       |  |
| Bulk Density                            | Not applicable                                    | Liquid                                   |
| Vapor Density                           | 2.62  | (Air = 1.0)                              |
| Particle characteristics                | Not applicable (liquid)                           |  |

### 9.2. Other information

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Molecular Formula C3 H8 O2  
Molecular Weight 76.10  
Evaporation Rate No information available

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**  
None known, based on information available

**10.2. Chemical stability**  
Hygroscopic.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization No information available.  
Hazardous Reactions No information available.

**10.4. Conditions to avoid**  
Incompatible products. Excess heat. Exposure to moist air or water.

**10.5. Incompatible materials**  
Strong oxidizing agents. Acids.

**10.6. Hazardous decomposition products**  
Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Product Information

(a) acute toxicity;  
Oral Based on available data, the classification criteria are not met  
Dermal Based on available data, the classification criteria are not met  
Inhalation Based on available data, the classification criteria are not met

| Component       | LD50 Oral              | LD50 Dermal                   | LC50 Inhalation |
|-----------------|------------------------|-------------------------------|-----------------|
| 1,2-Propanediol | LD50 = 20 g/kg ( Rat ) | LD50 = 20800 mg/kg ( Rabbit ) | -               |

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

(c) serious eye damage/irritation; Based on available data, the classification criteria are not met

(d) respiratory or skin sensitization;  
Respiratory Based on available data, the classification criteria are not met  
Skin Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

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There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Based on available data, the classification criteria are not met

Symptoms / effects, both acute and delayed No information available.

## 11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

| Component       | Freshwater Fish   | Water Flea                                    | Freshwater Algae  |
|-----------------|---|---|---|
| 1,2-Propanediol | LC50: = 51600 mg/L, 96h static (Oncorhynchus mykiss)<br>LC50: 41 - 47 mL/L, 96h static (Oncorhynchus mykiss)<br>LC50: = 51400 mg/L, 96h static (Pimephales promelas)<br>LC50: = 710 mg/L, 96h (Pimephales promelas) | EC50: > 1000 mg/L, 48h Static (Daphnia magna) | EC50: = 19000 mg/L, 96h (Pseudokirchneriella subcapitata) |

| Component       | Microtox  | M-Factor |
|-----------------|---|----------|
| 1,2-Propanediol | = 710 mg/L EC50 Photobacterium phosphoreum 30 min |          |

### 12.2. Persistence and degradability

Persistence Miscible with water, Persistence is unlikely, based on information available.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component       | log Pow | Bioconcentration factor (BCF) |
|-----------------|---------|-------------------------------|
| 1,2-Propanediol | -0.9    | <1 dimensionless              |

### 12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils



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## 12.5. Results of PBT and vPvB assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).

## 12.6. Endocrine disrupting properties

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 12.7. Other adverse effects **Persistent Organic Pollutant** **Ozone Depletion Potential**

This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Waste from Residues/Unused Products**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **Contaminated Packaging**

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

#### **European Waste Catalogue (EWC)**

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

#### **Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

#### **Switzerland - Waste Ordinance**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600  
<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

Not regulated

#### 14.1. UN number

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

### ADR

Not regulated

#### 14.1. UN number

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

### IATA

Not regulated

#### 14.1. UN number

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

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- 14.5. Environmental hazards** No hazards identified
- 14.6. Special precautions for user** No special precautions required.
- 14.7. Maritime transport in bulk according to IMO instruments** Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component       | CAS No  | EINECS    | ELINCS | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|-----------------|---------|-----------|--------|-----|-------|------|----------|------|------|
| 1,2-Propanediol | 57-55-6 | 200-338-0 | -      | -   | X     | X    | KE-29267 | X    | X    |

| Component       | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-----------------|---------|------|---|-----|------|------|-------|-------|
| 1,2-Propanediol | 57-55-6 | X    | ACTIVE  | X   | -    | X    | X     | X     |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

#### Authorisation/Restrictions according to EU REACH Not applicable

| Component       | CAS No  | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------------|---------|---|---|---|
| 1,2-Propanediol | 57-55-6 | -   | -   | -   |

#### Seveso III Directive (2012/18/EC)

| Component       | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|-----------------|---------|---|--|
| 1,2-Propanediol | 57-55-6 | Not applicable  | Not applicable   |

#### Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

**WGK Classification** See table for values

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| Component       | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-----------------|---------------------------------------|-------------------------|
| 1,2-Propanediol | WGK1                                  |                         |

| Component       | France - INRS (Tables of occupational diseases)      |
|-----------------|--|
| 1,2-Propanediol | Tableaux des maladies professionnelles (TMP) - RG 84 |

## Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

#### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

#### Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (volatile organic compound)

## Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

## Prepared By

Creation Date

Revision Date

Revision Summary

Health, Safety and Environmental Department

19-Nov-2009

22-Mar-2024

New emergency telephone response service provider.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No**

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1907/2006

**For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).**

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**