



Be Right™

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Issue Date 28-Oct-2015

Revision Date 14-Feb-2023

Version 1.9

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

### 1.1. Product identifier

|                     |   |
|---------------------|---|
| Product Code(s)     | 1429525                                       |
| Product Name        | Sodium Pyrophosphate, Crystal                 |
| CAS No              | 7722-88-5                                     |
| EC No (EU Index No) | 231-767-1                                     |
| Formula             | Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> |
| Molecular weight    | 265.9 g/mole                                  |

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

|                      |                 |
|----------------------|-----------------|
| Recommended Use      | Laboratory Use. |
| Uses advised against | Consumer use    |

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

#### Supplier

HACH UK  
Laser House  
Ground Floor, Suite B  
Waterfront Quay, Salford Quays  
GB - Manchester, M50 3XW  
Tel. +44 (0) 161 872 1487  
info-uk@hach.com

HACH Ireland  
Unit 34 GB Business Park  
Little Island  
IRL-Co. Cork  
T45 H681  
Tel. +353 (0)146 02 522  
info-ie@hach.com

### 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service  
IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|  |                     |
|--|---------------------|
| Serious eye damage/eye irritation                | Category 2 - (H319) |
| Specific target organ toxicity — single exposure | Category 3 - (H335) |

## 2.2. Label elements

EC-Label 231-767-1  
CAS No 7722-88-5  
Contains Tetrasodium pyrophosphate



### Signal word

Warning

### Hazard statements

H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection/ face protection  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)  
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| Chemical name                | CAS No.<br>EC No.<br>Index No. | Weight-% | Classification<br>according to<br>Regulation (EC) No.<br>1272/2008 [CLP] | Specific<br>concentration limit<br>(SCL) | M-Factor | M-Factor<br>(long-term) |
|------------------------------|--------------------------------|----------|--|--|----------|-------------------------|
| Tetrasodium<br>pyrophosphate | 7722-88-5<br>231-767-1         | 100%     | Eye Irrit. 2 - H319<br>STOT SE 3 - H335                                  | -  | -        | -                       |

| Chemical name | CAS No.<br>EC No.<br>Index No. | Weight-% | Classification<br>according to<br>Regulation (EC) No.<br>1272/2008 [CLP] | Specific<br>concentration limit<br>(SCL) | M-Factor | M-Factor<br>(long-term) |
|---------------|--------------------------------|----------|--|--|----------|-------------------------|
|               | -                              |          |  |  |          |                         |

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

| Chemical name                             | Oral LD50  | Dermal LD50  | Inhalation LC50 - 4<br>hour - dust/mist -<br>mg/L | Inhalation LC50 - 4<br>hour - vapour -<br>mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|---|------------|--------------|---|--|---|
| Tetrasodium<br>pyrophosphate<br>7722-88-5 | 2980 mg/kg | > 2000 mg/kg | None reported                                     | None reported                                  | None reported                           |

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Skin contact</b>                       | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.  |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

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

**Note to doctors** Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media** No information available.

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

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapours.

**Hazardous combustion products** Phosphorus oxides. Sodium oxides.

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

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Additional information** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**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**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid creating dust.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

**Specific use(s)** Analytical reagent.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                          | European Union | United Kingdom   | Ireland  |
|--|----------------|--|--|
| Tetrasodium pyrophosphate<br>7722-88-5 | -              | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup> |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**Additional information** No information available.

### 8.2. Exposure controls

#### Engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Hand protection

Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

| Gloves               |                                       |                 |                    |
|----------------------|---------------------------------------|-----------------|--------------------|
| Duration of contact  | PPE - Glove material                  | Glove thickness | Break through time |
| Short term           | Wear protective nitrile rubber gloves | 0,11 mm         | 480 minutes        |
| Long term (repeated) | Wear protective nitrile rubber gloves | 0,11 mm         | 480 minutes        |

**Skin and body protection** Wear suitable protective clothing.

#### Respiratory protection

Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid creating dust.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Physical state** Solid

**Colour** white

**Odour** Odourless

| <u>Property</u>  | <u>Values</u>      | <u>Remarks • Method</u> |
|--|--------------------|-------------------------|
| <b>Molecular weight</b>                                | 265.9 g/mole       |                         |
| <b>pH</b>  | 5.5                |                         |
| <b>Melting point / freezing point</b>                  | 988 °C / 1810.4 °F |                         |
| <b>Initial boiling point and boiling range</b>         | No data available  |                         |
| <b>Evaporation rate</b>                                | Not applicable     |                         |
| <b>Vapour pressure</b>                                 | Not applicable     |                         |
| <b>Relative vapor density</b>                          | No data available  |                         |
| <b>Specific Gravity</b>                                | 2.53               |                         |
| <b>Partition coefficient</b>                           | No data available  |                         |
| <b>Soil Organic Carbon-Water Partition Coefficient</b> | No data available  |                         |
| <b>Autoignition temperature</b>                        | No data available  |                         |
| <b>Decomposition temperature</b>                       | No data available  |                         |
| <b>Dynamic viscosity</b>                               | Not applicable     |                         |
| <b>Kinematic viscosity</b>                             | Not applicable     |                         |
| <b>Relative density</b>                                |                    |                         |

### Solubility(ies)

#### Water solubility

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|--|-------------------------|-------------------------------------|
| Completely soluble                     | 67000 mg/L              | 25 °C / 77 °F                       |

#### Solubility in other solvents

| <u>Chemical Name</u> | <u>Solubility classification</u> | <u>Solubility</u> | <u>Solubility Temperature</u> |
|----------------------|----------------------------------|-------------------|-------------------------------|
| None reported        | No information available         | No data available | No information available      |

#### Metal Corrosivity

|                                |                |
|--------------------------------|----------------|
| <b>Steel Corrosion Rate</b>    | Not applicable |
| <b>Aluminum Corrosion Rate</b> | Not applicable |

**Explosive properties**

|                       |                   |
|-----------------------|-------------------|
| Upper explosion limit | No data available |
| Lower explosion limit | No data available |

**Flammable properties**

|             |                |
|-------------|----------------|
| Flash point | Not applicable |
|-------------|----------------|

**Flammability**

|                           |                   |
|---------------------------|-------------------|
| Upper flammability limit: | No data available |
| Lower flammability limit  | No data available |

|                             |                    |
|-----------------------------|--------------------|
| <b>Oxidising properties</b> | No data available. |
|-----------------------------|--------------------|

|                     |                   |
|---------------------|-------------------|
| <b>Bulk density</b> | No data available |
|---------------------|-------------------|

**9.2. Other information**

No information available.

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

|                   |                           |
|-------------------|---------------------------|
| <b>Reactivity</b> | No information available. |
|-------------------|---------------------------|

**10.2. Chemical stability**

|                  |                                 |
|------------------|---------------------------------|
| <b>Stability</b> | Stable under normal conditions. |
|------------------|---------------------------------|

**10.3. Possibility of hazardous reactions**

|   |                               |
|---|-------------------------------|
| <b>Possibility of hazardous reactions</b> | None under normal processing. |
|---|-------------------------------|

**10.4. Conditions to avoid**

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | None known based on information supplied. |
|----------------------------|---|

**10.5. Incompatible materials**

|                               |   |
|-------------------------------|---|
| <b>Incompatible materials</b> | None known based on information supplied. |
|-------------------------------|---|

**10.6. Hazardous decomposition products**

|   |                    |
|---|--------------------|
| <b>Hazardous Decomposition Products</b> | Phosphorus oxides. |
|---|--------------------|

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met

|         |  |
|---------|--|
| Mixture | If available, see ingredient data below. |
|---------|--|

|           |                           |
|-----------|---------------------------|
| Substance | Test data reported below. |
|-----------|---------------------------|

**Oral Exposure Route:**

| Chemical name             | Endpoint type        | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------------------|----------------------|---------------|---------------|-----------------------|--|
| Tetrasodium pyrophosphate | Rat LD <sub>50</sub> | 2980 mg/kg    | None reported | None reported         | RTECS  |

**Dermal Exposure Route:**

| Chemical name             | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------------------|-------------------------|---------------|---------------|-----------------------|--|
| Tetrasodium pyrophosphate | Rabbit LD <sub>50</sub> | > 2000 mg/kg  | None reported | None reported         | RTECS  |

**Acute Toxicity Estimate (ATE)**

Not applicable

The following values are calculated based on chapter 3.1 of the GHS document

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance Test data reported below.

| Chemical name             | Test method | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data |
|---------------------------|-------------|---------|---------------|---------------|-------------------------------------|--|
| Tetrasodium pyrophosphate | Patch test  | Rabbit  | 500 mg        | None reported | Not corrosive or irritating to skin | ECHA   |

**Serious eye damage/eye irritation**

Classification based on data available for ingredients. Causes serious eye irritation.

Mixture If available, see ingredient data below.

Substance Test data reported below.

| Chemical name             | Test method | Species | Reported dose | Exposure time | Results           | Key literature references and sources for data |
|---------------------------|-------------|---------|---------------|---------------|-------------------|--|
| Tetrasodium pyrophosphate | Draize Test | Rabbit  | 95 mg         | 4 hours       | Corrosive to eyes | ECHA   |

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

**STOT - single exposure**

May cause respiratory irritation.

Mixture If available, see ingredient data below.

Substance No data available.



**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

Mixture invitro **Data** If available, see ingredient data below.

Substance invitro **Data** No data available.

Mixture invivo **Data** If available, see ingredient data below.

Substance invivo **Data** No data available.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

Mixture If available, see ingredient data below.

Substance No data available.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance No data available.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Mixture**

**Acute aquatic toxicity:** If available, see ingredient data below.

**Aquatic Chronic Toxicity:** If available, see ingredient data below.

**Substance**

**Acute aquatic toxicity:** No data available.

**Aquatic Chronic Toxicity:** Test data reported below.

Fish:

| Chemical name             | Exposure time | Species               | Endpoint type | Reported dose | Key literature references and sources for data |
|---------------------------|---------------|-----------------------|---------------|---------------|--|
| Tetrasodium pyrophosphate | 48 hours      | <i>Leuciscus idus</i> | LC            | 1500 mg/L     | IUCLID   |

### **12.2. Persistence and degradability**

**Mixture** No data available.

### **12.3. Bioaccumulative potential**

**Mixture:** No data available.

Partition coefficient No data available

### **12.4. Mobility in soil**

Soil Organic Carbon-Water Partition Coefficient No data available

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

| Chemical name             | PBT and vPvB assessment         |
|---------------------------|---------------------------------|
| Tetrasodium pyrophosphate | The substance is not PBT / 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**

No information available.

Ozone: Not applicable

Ozone depletion potential (ODP): No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### **Advice on Disposal**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### **Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.

#### **Waste disposal number of used product**

|                               |  |
|-------------------------------|--|
| 160506                        | WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste. |
| <b>Contaminated packaging</b> | Dispose of contents/containers in accordance with local regulations.   |
| <b>Other Information</b>      | Waste codes should be assigned by the user based on the application for which the product was used.  |

## Section 14: TRANSPORT INFORMATION

### IMDG

|   |                                      |
|---|--------------------------------------|
| <b>14.1 UN number or ID number</b>  | Not regulated                        |
| <b>14.2 Proper shipping name</b>  | Not regulated                        |
| <b>14.3 Transport hazard class(es)</b>  | Not regulated                        |
| <b>14.4 Packing Group</b>   | Not regulated                        |
| <b>14.5 Marine pollutant</b>  | Not applicable                       |
| <b>14.6 Special precautions for user</b>  | See section 6-8 for more information |
| <b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | Not applicable                       |

### ADR

|  |                                      |
|--|--------------------------------------|
| <b>14.1 UN number or ID number</b>       | Not regulated                        |
| <b>14.2 Proper shipping name</b>         | Not regulated                        |
| <b>14.3 Transport hazard class(es)</b>   | Not regulated                        |
| <b>14.4 Packing Group</b>                | Not regulated                        |
| <b>14.5 Environmental hazards</b>        | Not applicable                       |
| <b>14.6 Special precautions for user</b> | See section 6-8 for more information |

### IATA

|  |                                      |
|--|--------------------------------------|
| <b>14.1 UN number or ID number</b>       | Not regulated                        |
| <b>14.2 Proper shipping name</b>         | Not regulated                        |
| <b>14.3 Transport hazard class(es)</b>   | Not regulated                        |
| <b>14.4 Packing group</b>                | Not regulated                        |
| <b>14.5 Environmental hazards</b>        | Not applicable                       |
| <b>14.6 Special precautions for user</b> | See section 6-8 for more information |

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## Section 15: REGULATORY INFORMATION

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

#### European Union

**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**

#### **Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants** Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

• Non-controlled

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**International Inventories**

|                                   |          |
|-----------------------------------|----------|
| <b>EINECS/ELINCS</b>              | Complies |
| <b>TSCA</b>                       | Complies |
| <b>DSL/NDSL</b>                   | Complies |
| <b>ENCS</b>                       | Complies |
| <b>IECSC</b>                      | Complies |
| <b>KECL - Existing substances</b> | Complies |
| <b>PICCS</b>                      | Complies |
| <b>AICS</b>                       | Complies |

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

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

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

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

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

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

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

**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report** Chemical safety assessments for substances in this mixture were not carried out.

**Section 16: OTHER INFORMATION**

**Issue Date** 28-Oct-2015

**Revision Date** 14-Feb-2023

**Revision Note** New SDS, SDS sections updated, 3, 9, 11, 12.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

|          |  |
|----------|--|
| **       | Hazard Designation   |
| ADN      | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieure   |
| ADR      | European Agreement concerning the International Carriage of Dangerous Goods by Road  |
| ATE      | Acute Toxicity Estimate  |
| CAS      | Chemical Abstracts Service Number  |
| Ceiling  | Maximum limit value  |
| CLP      | Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No. 1272/2008]   |
| DNEL     | Derived No Effect Level (DNEL)   |
| EC       | European Community   |
| ECHA     | ECHA (The European Chemicals Agency)   |
| EC50     | Effective Concentration to 50% of a test population  |
| EEC      | European Economic Community  |
| EN       | European Standard  |
| IMDG     | International Maritime Dangerous Goods (IMDG)  |
| IATA     | International Air Transport Association (IATA)   |
| IATA-DGR | International Air Transport Association - Dangerous Goods Regulations  |
| ICAO     | International Civil Aviation Organization  |
| ICAO-TI  | International Civil Aviation Organization - Technical Instructions   |
| IUCLID   | IUCLID (The International Uniform Chemical Information Database)   |
| GHS      | Globally Harmonized System of Classification and Labelling of Chemicals  |
| LOAEL    | Lowest observed adverse effect level   |
| LOAEC    | Lowest observed adverse effect concentration   |
| LC50     | Lethal Concentration to 50% of a test population   |
| LD50     | Lethal Dose to 50% of a test population (Median Lethal Dose)   |
| LOLI     | LOLI (List of Lists - An International Chemical Regulatory Database)   |
| MAK      | Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit value, which relates to safe daily exposure levels to chemical substances            |
| NOAEL    | NOAEL (No observed adverse effect level)   |
| NOAEC    | No observed adverse effect concentration   |
| OSHA     | OSHA (Occupational Safety and Health Administration of the US Department of Labour)  |
| PEC      | Predicted Effect Concentration   |
| PNEC     | Predicted No Effect Concentration (PNEC)   |
| PBT      | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals   |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No. 1907/2006]   |
| RID      | Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| RTECS    | RTECS (Registry of Toxic Effects of Chemical Substances)   |
| TWA      | TWA (time-weighted average)  |
| SKN*     | Skin designation   |
| SKN+     | Skin sensitisation   |
| STEL     | STEL (Short Term Exposure Limit)   |
| STOT     | Specific Target Organ Toxicity   |
| STOT RE  | Specific target organ toxicity — repeated exposure   |
| STOT SE  | Specific target organ toxicity — single exposure   |
| SVHC     | Substances of Very High Concern  |
| TLV      | Threshold Limit Value  |
| TRGS     | Technical rules for hazardous substances, Germany  |
| TSCA     | Toxic Substances Control Act   |
| UN       | United Nations   |
| vPvB     | very persistent and very bioaccumulative   |
| VOC      | Volatile organic compounds   |
| AwSV     | Administrative regulation of water polluting substances, Germany   |

#### Key literature references and sources for data

See Section 11: TOXICOLOGICAL INFORMATION

See Section 12: ECOLOGICAL INFORMATION

#### Classification procedure

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| <b>Classification according to Regulation (EC) No. 1272/2008 [CLP]</b> | <b>Method Used</b> |
|--|--------------------|
| Acute oral toxicity  | Calculation method |
| Acute dermal toxicity  | Calculation method |
| Acute inhalation toxicity - gas  | Calculation method |
| Acute inhalation toxicity - Vapour                                     | Calculation method |
| Acute inhalation toxicity - dust/mist                                  | Calculation method |
| Skin corrosion/irritation  | Calculation method |
| Serious eye damage/eye irritation                                      | Calculation method |
| Respiratory sensitisation  | Calculation method |
| Skin sensitisation   | Calculation method |
| Mutagenicity   | Calculation method |
| Carcinogenicity  | Calculation method |
| Reproductive toxicity  | Calculation method |
| STOT - single exposure   | Calculation method |
| STOT - repeated exposure   | Calculation method |
| Acute aquatic toxicity   | Calculation method |
| Chronic aquatic toxicity   | Calculation method |
| Aspiration toxicity  | Calculation method |
| Ozone  | Calculation method |

**Training Advice** 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

**Restrictions on use** For Laboratory Use Only.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**