

according to Regulation (EC) No. 1907/2006

Revision Date 20-Feb-2024 Revision Number 3

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

#### 1.1. Product identifier

Product Description: <u>Platinum Rhodium foil</u>

Cat No. : 41809

Molecular Formula Pt:Rh; 90:10 wt%

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

Recommended Use Laboratory chemicals. Uses advised against 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**

## 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

**Physical hazards** 

ALFAA41809

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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

EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

| Component | CAS No    | EC No             | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------|-----------|-------------------|----------|---|
| Platinum  | 7440-06-4 | EEC No. 231-116-1 | 90.0     | -   |
| Rhodium   | 7440-16-6 | EEC No. 231-125-0 | 10.0     | -   |

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. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Self-Protection of the First Aider** No special precautions required.

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

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None reasonably foreseeable.

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

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

#### Suitable Extinguishing Media

approved class D extinguishers. Do not use water or foam.

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

Water may be ineffective.

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

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Platinum oxide, Rhodium oxide.

#### 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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions required.

## 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

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

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Pick up and transfer to properly labelled containers.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do

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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 in a dry place. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510

Storage Class (LGK) (Germany)

Storage Class/LGK 13

Switzerland - Storage of hazardous substances

Storage class - SC 11/13 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.

**CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom                | France                | Belgium                         | Spain                             |
|-----------|----------------|-----------------------------------|-----------------------|---------------------------------|-----------------------------------|
| Platinum  |                | STEL: 15 mg/m <sup>3</sup> 15 min | TWA / VME: 1 mg/m³ (8 | TWA: 1 mg/m <sup>3</sup> 8 uren | TWA / VLA-ED: 1 mg/m <sup>3</sup> |
|           |                | TWA: 5 mg/m <sup>3</sup> 8 hr     | heures).              |                                 | (8 horas)                         |
| Rhodium   |                | STEL: 0.3 mg/m3 15 min            | TWA / VME: 1 mg/m³ (8 | TWA: 1 mg/m <sup>3</sup> 8 uren | TWA / VLA-ED: 1 mg/m <sup>3</sup> |
|           |                | TWA: 0.1 mg/m <sup>3</sup> 8 hr   | heures).              | _                               | (8 horas)                         |

| Component | Italy Germany |                                    | Portugal                         | The Netherlands                 | Finland                                  |  |
|-----------|---------------|------------------------------------|----------------------------------|---------------------------------|--|--|
| Platinum  |               | TWA: 1 mg/m³ (8<br>Stunden). AGW - | TWA: 1 mg/m <sup>3</sup> 8 horas | TWA: 1 mg/m <sup>3</sup> 8 uren | TWA: 1 mg/m³ 8<br>tunteina               |  |
| Rhodium   |               |                                    | TWA: 1 mg/m <sup>3</sup> 8 horas |                                 | TWA: 0.1 mg/m <sup>3</sup> 8<br>tunteina |  |

| Component | Austria                                    | Denmark                      | Switzerland                  | Poland                     | Norway                             |  |
|-----------|--|------------------------------|------------------------------|----------------------------|------------------------------------|--|
| Platinum  | Platinum MAK-TMW: 1 mg/m <sup>3</sup> 8 TW |                              | TWA: 1 mg/m <sup>3</sup> 8   | TWA: 1 mg/m <sup>3</sup> 8 | : 8 timer                          |  |
|           | Stunden                                    | STEL: 2 mg/m <sup>3</sup> 15 | Stunden                      | godzinach                  | : 15 minutter. no value            |  |
|           |  | minutter                     |                              |                            | adopted                            |  |
| Rhodium   | Rhodium T                                  |                              | TWA: 0.1 mg/m <sup>3</sup> 8 |                            | TWA: 0.1 mg/m <sup>3</sup> 8 timer |  |
|           |  |                              | Stunden                      |                            | STEL: 0.3 mg/m <sup>3</sup> 15     |  |
|           |  | minutter                     |                              |                            | minutter. value                    |  |
|           |  |                              |                              |                            | calculated                         |  |

| Component | Bulgaria                   | Croatia  | Ireland   | Cyprus                   | Czech Republic  |
|-----------|----------------------------|--|---|--------------------------|---|
| Platinum  | TWA: 1.0 mg/m <sup>3</sup> | TWA-GVI: 1 mg/m³ 8 satima.   | TWA: 1 mg/m <sup>3</sup> 8 hr. Pt<br>STEL: 3 mg/m <sup>3</sup> 15 min | TWA: 1 mg/m <sup>3</sup> | TWA: 0.5 mg/m <sup>3</sup> 8<br>hodinách.<br>Ceiling: 1 mg/m <sup>3</sup> |
| Rhodium   |                            | TWA-GVI: 0.1 mg/m³ 8<br>satima. Rh fume and<br>metal dust<br>STEL-KGVI: 0.3 mg/m³<br>15 minutama. fume and | Rh dust and fume<br>STEL: 0.3 mg/m³ 15 min                            |                          |   |

|   | Component                        | Estonia       | Gibraltar                     | Greece                   | Hungary                    | Iceland                           |
|---|----------------------------------|---------------|-------------------------------|--------------------------|----------------------------|-----------------------------------|
| ſ | Platinum TWA: 1 mg/m³ 8 TWA: 1 n |               | TWA: 1 mg/m <sup>3</sup> 8 hr | TWA: 5 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup> 8 | TWA: 1 mg/m <sup>3</sup> 8        |
| 1 | tundides.                        |               | metallic;existing             |                          | órában. AK                 | klukkustundum. dust               |
| 1 |                                  | scientific da |                               |                          |                            | and powder                        |
| 1 |                                  |               | effects appear to be          |                          |                            | Ceiling: 2 mg/m <sup>3</sup> dust |

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|         | particularly | / limited                   | and powder                        |
|---------|--------------|-----------------------------|-----------------------------------|
| Rhodium |              | STEL: 0.3 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup> 8      |
|         |              | TWA: 0.1 mg/m <sup>3</sup>  | klukkustundum. Rh                 |
|         |              |                             | dust, fume, and powder            |
|         |              |                             | Ceiling: 0.2 mg/m <sup>3</sup> Rh |
|         |              |                             | dust, fume, and powder            |

| Component | Latvia                   |                               |                            | Malta                    | Romania  |  |
|-----------|--------------------------|-------------------------------|----------------------------|--------------------------|--|--|
| Platinum  | TWA: 1 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup> IPRD | TWA: 1 mg/m <sup>3</sup> 8 | TWA: 1 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup> 8 ore   |  |
|           |                          | 1                             | Stunden                    |                          | , and the second |  |

| Component | Russia | Slovak Republic          | Slovenia           | Sweden                             | Turkey                          |  |
|-----------|--------|--------------------------|--------------------|------------------------------------|---------------------------------|--|
| Platinum  |        | TWA: 1 mg/m <sup>3</sup> | J                  | TLV: 1 mg/m <sup>3</sup> 8 timmar. | TWA: 1 mg/m <sup>3</sup> 8 saat |  |
|           |        |                          | inhalable fraction | NGV                                |                                 |  |

#### **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.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS46/2 Platinum metal and soluble platinum compounds in air Laboratory method using electrothermal atomic absorption spectrometry or inductively coupled plasma-mass spectrometry

MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry

MDHS 99 Metals in air by ICP-AES

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

No information available

## **Predicted No Effect Concentration (PNEC)**

No information available.

#### 8.2. Exposure controls

## **Engineering Measures**

None under normal use conditions.

## Personal protective equipment

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

Hand Protection No special protective equipment required

| Glove material    | Breakthrough time | Glove thickness | EU standard | Glove comments        |
|-------------------|-------------------|-----------------|-------------|-----------------------|
| Disposable gloves | See manufacturers | -               | EN 374      | (minimum requirement) |
|                   | recommendations   |                 |             |                       |

**Skin and body protection** Long sleeved clothing.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

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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

Solid

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** Solid

**Appearance** 

Odor Odorless

No data available **Odor Threshold** Melting Point/Range No data available **Softening Point** No data available **Boiling Point/Range** No information available

Flammability (liquid) Not applicable

Flammability (solid,gas) No information available

**Explosion Limits** No data available

Method - No information available Flash Point No information available

**Autoignition Temperature** No data available **Decomposition Temperature** No data available

No information available pН

Viscosity Not applicable Solid

Water Solubility Insoluble in water Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

<=1100 hPa @ 50 °C **Vapor Pressure Density / Specific Gravity** No data available **Bulk Density** No data available

**Vapor Density** Not applicable Solid

**Particle characteristics** No data available

9.2. Other information

**Molecular Formula** Pt:Rh; 90:10 wt% **Evaporation Rate** Not applicable - Solid

## **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous Polymerization** No information available. **Hazardous Reactions** None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

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10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Platinum oxide. Rhodium oxide.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

OralNo data availableDermalNo data availableInhalationNo data available

#### Toxicology data for the components

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory**Skin
No data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

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

## 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.

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## **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

Ecotoxicity effects May cause long-term adverse effects in the environment. Do not allow material to

contaminate ground water system.

12.2. Persistence and degradability Product contains heavy metals. Discharge into the environment must be avoided. Special

pre-treatment is necessary

Persistence Insoluble in water, May persist.

Degradability Not relevant for inorganic substances.

**Degradation in sewage**Contains substances known to be hazardous to the environment or not degradable in waste

treatment plant water treatment plants.

water treatment plants

**12.3. Bioaccumulative potential** May have some potential to bioaccumulate; Product has a high potential to bioconcentrate

12.4. Mobility in soil Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water

solubility.

12.5. Results of PBT and vPvB

assessment

No data available for assessment.

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**

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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

**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 |
|-----------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Platinum  | 7440-06-4 | 231-116-1 | -      | -   | X     | X    | KE-28808 | Х    | -    |
| Rhodium   | 7440-16-6 | 231-125-0 | -      | -   | X     | X    | KE-30318 | Χ    | -    |

| Component | CAS No    | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-----------|-----------|------|---|-----|------|------|-------|-------|
| Platinum  | 7440-06-4 | Х    | ACTIVE  | X   | Ī    | X    | Х     | X     |
| Rhodium   | 7440-16-6 | Х    | ACTIVE  | X   | -    | X    | Х     | Х     |

**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) -      | REACH (1907/2006) -       | REACH Regulation (EC    |
|-----------|-----------|--------------------------|---------------------------|-------------------------|
|           |           | Annex XIV - Substances   | Annex XVII - Restrictions | 1907/2006) article 59 - |
|           |           | Subject to Authorization | on Certain Dangerous      | Candidate List of       |
|           |           |                          | Substances                | Substances of Very High |
|           |           |                          |                           | Concern (SVHC)          |
| Platinum  | 7440-06-4 | -                        | -                         | -                       |
| Rhodium   | 7440-16-6 | -                        | -                         | -                       |

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

| Component | CAS No | Seveso III Directive (2012/18/EC) - | Seveso III Directive (2012/18/EC) - |
|-----------|--------|-------------------------------------|-------------------------------------|

#### Platinum Rhodium foil

|          |           | Qualifying Quantities for Major Accident | Qualifying Quantities for Safety Report |  |
|----------|-----------|--|---|--|
|          |           | Notification                             | Requirements                            |  |
| Platinum | 7440-06-4 | Not applicable                           | Not applicable                          |  |
| Rhodium  | 7440-16-6 | 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

Water endangering class = non-hazardous to waters (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-----------|---------------------------------------|-------------------------|
| Rhodium   | nwg                                   |                         |

#### **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

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## **SECTION 16: OTHER INFORMATION**

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

H228 - Flammable solid

## Legend

**CAS** - Chemical Abstracts Service

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

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Substances/EU List of Notified Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

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

**DNEL** - Derived No Effect Level

LD50 - Lethal Dose 50%

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water

NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

vPvB - very Persistent, very Bioaccumulative

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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

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)

## Key literature references and sources for data

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

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards
Health Hazards
Calculation method
Environmental hazards
Cn basis of test data
Calculation method

#### **Training Advice**

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

Prepared By Health, Safety and Environmental Department

Revision Date 20-Feb-2024

**Revision Summary** 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. 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**