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Selenium(IV) oxide ≥99,5 %, p.a.

article number: **1L0N** Version: **GHS 2.0 en** Replaces version of: 2021-06-17 Version: (GHS 1)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Identification of the substance

Article number

CAS number

Selenium(IV) oxide ≥99,5 %, p.a.

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7446-08-4

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------------|-------------------------|-----------|---------|
| NSW Poisons Information Centre Childrens Hospital | Hawkesbury Road | 2145 West- mead, NSW | 131126 | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|--|---------------|---------------------------|---------------------|
| 3.10 | Acute toxicity (oral) | 3 | Acute Tox. 3 | H301 |
| 3.1I | Acute toxicity (inhal.) | 3 | Acute Tox. 3 | H331 |
| 3.9 | Specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |

For full text of abbreviations: see SECTION 16

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The most important adverse physicochemical, human health and environmental effects Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS06, GHS08



Hazard statements

| H301+H331 | Toxic if swallowed or if inhaled |
|-----------|---|
| H373 | May cause damage to organs through prolonged or repeated exposure |

Precautionary statements

Precautionary statements - prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray

Precautionary statements - response

| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician |
|-----------|--|
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfort- able for breathing |
| P311 | Call a POISON CENTER or doctor/physician |
| P330 | Rinse mouth |
| | |

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

| Name of substance | Selenium(IV) oxide |
|-------------------|-----------------------------------|
| Molecular formula | SeO ₂ |
| Molar mass | 111 ^g / _{mol} |
| CAS No | 7446-08-4 |

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SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Self-protection of the first aider.

Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** Cough, Nausea, Irritant effects, Vomiting, Dyspnoea
- **4.3 Indication of any immediate medical attention and special treatment needed** none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use extractor hood (laboratory). Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Hygroscopic solid.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up.

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

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7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Coun try | Name of agent | CAS No | Identifi- er | TWA [mg/ m³] | STEL [mg/ m³] | Ceil- ing-C [mg/ m ³] | Nota- tion | Source |
|-------------|----------------|--------|-----------------|--------------------|---------------------|--|---------------|--------|
| AU | nuisance dusts | | WES | 10 | | | i | WES |

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

TWA

minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels Threshold Endpoint **Protection goal**, **Used in Exposure time** level route of exposure 0.07 mg/m³ human, inhalatory DNEL worker (industry) chronic - systemic effects DNEL 9.8 mg/kg bw/ human, dermal worker (industry) chronic - systemic effects day

Environmental values

| Relevant PNECs and other threshold levels | | | | | | | | |
|---|-------------------------------------|-----------------------|---------------------------------|------------------------------|--|--|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | | | |
| PNEC | 3.74 ^{µg} / _l | aquatic organisms | freshwater | short-term (single instance) | | | | |
| PNEC | 2.8 ^{µg} / _l | aquatic organisms | marine water | short-term (single instance) | | | | |
| PNEC | 2.1 ^{mg} / _l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) | | | | |
| PNEC | 11.48 ^{mg} / _{kg} | aquatic organisms | freshwater sediment | short-term (single instance) | | | | |
| PNEC | 8.68 ^{mg} / _{kg} | aquatic organisms | marine sediment | short-term (single instance) | | | | |
| PNEC | 0.06 ^{mg} / _{kg} | terrestrial organisms | soil | short-term (single instance) | | | | |

8.2 **Exposure controls**

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Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.





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SECTION 9: Physical and chemical properties

| 9.1 | Information on basic physical and chemical properties | | | | | |
|-----|--|---|--|--|--|--|
| | Physical state | solid | | | | |
| | Form | powder, crystalline | | | | |
| | Colour | white | | | | |
| | Odour | characteristic | | | | |
| | Melting point/freezing point | 340 °C at 1,015 hPa (ECHA) | | | | |
| | Boiling point or initial boiling point and boiling range | not determined | | | | |
| | Flammability | non-combustible | | | | |
| | Lower and upper explosion limit | not determined | | | | |
| | Flash point | not applicable | | | | |
| | Auto-ignition temperature | ≥210 – ≤340 °C at 1,013 hPa (ECHA) | | | | |
| | Decomposition temperature | not relevant | | | | |
| | pH (value) | 2 (in aqueous solution: 10 ^g / _l , 20 °C) | | | | |
| | Kinematic viscosity | not relevant | | | | |
| | Solubility(ies) | | | | | |
| | Water solubility | 1,353 ^g / _l at 19 °C (ECHA) | | | | |
| | Partition coefficient | | | | | |
| | Partition coefficient n-octanol/water (log value): | -0.77 (calculated value) | | | | |
| | Vapour pressure | <0.001 mmHg at 20 °C | | | | |
| | Density and/or relative density | | | | | |
| | Density | 3.95 ^g / _{cm³} (ECHA) | | | | |
| | Relative vapour density | Information on this property is not available. | | | | |
| | Particle characteristics | No data available. | | | | |
| | Other safety parameters | | | | | |
| | Oxidising properties | none | | | | |
| 9.2 | Other information | | | | | |
| | Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant | | | | |
| | Other safety characteristics: | There is no additional information. | | | | |



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SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Reducing agents, Strong alkali

- **10.4 Conditions to avoid** Humidity.
- 10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Toxic if swallowed. Toxic if inhaled.

| Acute toxicity | | | | | | | |
|----------------|----------|------------------------------------|---------|--------|--------|--|--|
| Exposure route | Endpoint | Value | Species | Method | Source | | |
| oral | LD50 | 68.1 ^{mg} / _{kg} | rat | | TOXNET | | |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

vomiting, nausea

• If in eyes

slightly irritant but not relevant for classification

• If inhaled

vertigo, cough, headache, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

If on skin

slightly irritant but not relevant for classification

• Other information

Other adverse effects: Liver and kidney damage, Lung, Gastro-intestinal tract, Pancreas

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) | | | | | | | |
|--------------------------|-------------------------------------|---------|--------|------------------|--|--|--|
| Endpoint | Value | Species | Source | Exposure time | | | |
| LC50 | 2,060 ^{µg} / _l | fish | ECHA | 96 h | | | |
| ErC50 | 44,240 ^{µg} / _l | algae | ECHA | 72 h | | | |

Aquatic toxicity (chronic)

| Endpoint | Value | Species | Source | Exposure time |
|----------|----------------------|----------------|--------|------------------|
| EC50 | 180 ^{mg} /l | microorganisms | ECHA | 3 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

| | n-octanol/water (log KOW) | -0.77 (Calculated value) | |
|--|---------------------------|--------------------------|--|
|--|---------------------------|--------------------------|--|

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12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- **12.6** Endocrine disrupting properties Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

Relevant provisions relating to waste(Basel Convention)

Properties of waste which render it hazardous

H6.1 Poisonous (Acute)

H11 Toxic (Delayed or chronic)

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

| | UN RTDG | UN 3283 |
|------|-------------------------|----------------------------------|
| | IMDG-Code | UN 3283 |
| | ICAO-TI | UN 3283 |
| 14.2 | UN proper shipping name | |
| | UN RTDG | SELENIUM COMPOUND, SOLID, N.O.S. |
| | IMDG-Code | SELENIUM COMPOUND, SOLID, N.O.S. |
| | ICAO-TI | Selenium compound, solid, n.o.s. |
| | Technical name | Selenium(IV) oxide |
| | | |

Safety data sheet Safety data sheet acc. to Safe Work Australia - Code of Practice

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| 14.3 | Transport hazard class(es) | | |
|------|--|---|--|
| | UN RTDG | 6.1 | |
| | IMDG-Code | 6.1 | |
| | ICAO-TI | 6.1 | |
| 14.4 | Packing group | | |
| | UN RTDG | III | |
| | IMDG-Code | III | |
| | ICAO-TI | III | |
| 14.5 | Environmental hazards | hazardous to the aquatic environment | |
| 14.6 | Special precautions for user | | |
| | There is no additional information. | | |
| 14.7 | Transport in bulk according to IMO instrument | S | |
| | The cargo is not intended to be carried in bulk. | | |
| 14.8 | 3 Information for each of the UN Model Regulations | | |
| | Transport informationNational regulationsAdditional information(UN RTDG) | | |
| | UN number | 3283 | |
| | Class | 6.1 | |
| | Environmental hazards | Yes Hazardous to the aquatic environment | |
| | Packing group | III | |
| | Danger label(s) | 6.1 Fish and tree | |
| | | | |
| | Special provisions (SP) | 223, 274 UN RTDG | |
| | Excepted quantities (EQ) | E1 UN RTDG | |
| | Limited quantities (LQ) | 5 kg UN RTDG | |
| | Emergency Action Code | 2X | |
| | International Maritime Dangerous Goods Code | (IMDG) - Additional information | |
| | Proper shipping name | SELENIUM COMPOUND, SOLID, N.O.S. | |
| | Particulars in the shipper's declaration | UN3283, SELENIUM COMPOUND, SOLID, N.O.S., (Selenium(IV) oxide), 6.1, III, MARINE POLLUTANT | |
| | Marine pollutant | Yes (hazardous to the aquatic environment) | |
| | Danger label(s) | 6.1, "Fish and tree" | |
| | | | |

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| article number: 1L0N | | |
|--|---|--|
| Special provisions (SP) | 223, 274 | |
| Excepted quantities (EQ) | E1 | |
| Limited quantities (LQ) | 5 kg | |
| EmS | F-A, S-A | |
| Stowage category | A | |
| International Civil Aviation Organization (ICA | AO-IATA/DGR) - Additional information | |
| Proper shipping name | Selenium compound, solid, n.o.s. | |
| Particulars in the shipper's declaration | UN3283, Selenium compound, solid, n.o.s., (Sel- enium(IV) oxide), 6.1, III | |
| Environmental hazards | Yes (hazardous to the aquatic environment) | |
| Danger label(s) | 6.1 | |
| | | |
| Special provisions (SP) | A3, A5 | |
| Excepted quantities (EQ) | E1 | |
| Limited quantities (LQ) | 10 kg | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

Substance is listed.

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

| Country | Inventory | Status |
|---------|------------|---------------------|
| AU | AIIC | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| EU | REACH Reg. | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| | | |

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| Country | Inventory | Status |
|---------|-----------|------------------------------|
| PH | PICCS | substance is listed |
| TR | CICR | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

| Australian Inventory of Industrial Chemicals |
|---|
| Chemical Inventory and Control Regulation |
| List of Existing and New Chemical Substances (CSCL-ENCS) |
| Domestic Substances List (DSL) |
| EC Substance Inventory (EINECS, ELINCS, NLP) |
| Inventory of Existing Chemical Substances Produced or Imported in China |
| National Inventory of Chemical Substances |
| Korea Existing Chemicals Inventory |
| National Chemical Inventory |
| New Zealand Inventory of Chemicals |
| Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH registered substances |
| Taiwan Chemical Substance Inventory |
| Toxic Substance Control Act |
| |

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|---------------------------|---|--------------------------|
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 14.8 | | Emergency Action Code: 2X | yes |
| 15.1 | | Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |

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| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |
| WES | Safe Work Australia: Workplace exposure standards for airborne contaminants |

Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| H301 | Toxic if swallowed. |
| H331 | Toxic if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



