acc. to Safe Work Australia - Code of Practice



date of compilation: 2023-06-19

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Tetrahydronaphthalene ≥98 %, for synthesis

article number: **227T** Version: **GHS 2.0 en** Replaces version of: 2023-06-19 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

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119-64-2

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

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 | on Hazard class | | Hazard class and category | Hazard statement |
|---------|---------------------------------------|---|---------------------------|---------------------|
| 3.2 | 3.2 Skin corrosion/irritation | | Skin Irrit. 2 | H315 |
| 3.3 | 3.3 Serious eye damage/eye irritation | | Eye Irrit. 2 | H319 |
| 3.6 | 3.6 Carcinogenicity | | Carc. 2 | H351 |
| 3.10 | Aspiration hazard | 1 | Asp. Tox. 1 | H304 |

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| Supplemental hazard information | | |
|--------------------------------------|------------------------------|--|
| Code Supplemental hazard information | | |
| AUH019 | may form explosive peroxides | |

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling

Signal word

Danger

Pictograms

GHS07, GHS08



Hazard statements

| H304 | May be fatal if swallowed and enters airways |
|------|--|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H351 | Suspected of causing cancer |

Precautionary statements

Precautionary statements - prevention

P280 Wear protective gloves

Precautionary statements - response

| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician |
|----------------|---|
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |
| P331 | Do NOT induce vomiting |
| P337+P313 | If eye irritation persists: Get medical advice/attention |

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant

For professional users only

Supplemental hazard information

AUH019 May form explosive peroxides.

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 $\ge 0,1\%$.

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SECTION 3: Composition/information on ingredients

| 3.1 | Substances |
|-----|------------|
| | |

| Name of substance | Tetrahydronaphthalene |
|-------------------|-------------------------------------|
| Molecular formula | C ₁₀ H ₁₂ |
| Molar mass | 132.2 ^g / _{mol} |
| CAS No | 119-64-2 |

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Call a physician immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration hazard, Irritation

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 spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

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5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

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.

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 vapour/spray.

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.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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

Avoid exposure.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

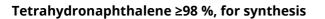
Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

UV-radiation/sunlight, contact with air/oxygen

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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)

This information is not available.

Human health values

Relevant DNELs and other threshold levels

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------|------------------------|------------------------------------|--------------------------------------|----------------------------|
| DNEL | 1.65 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 8.25 mg/m ³ | human, inhalatory | worker (industry) acute - systemic e | |
| DNEL | 1.65 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| DNEL | 8.25 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| DNEL | 0.167 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 0.835 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

Environmental values

| Relevant | Relevant PNECs and other threshold levels | | | | | |
|---------------|---|----------------------------|---|------------------------------|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | |
| PNEC | 0.002 ^{mg} / _l | aquatic organisms | freshwater | short-term (single instance) | | |
| PNEC | 0 ^{mg} / _l | aquatic organisms | marine water | short-term (single instance) | | |
| PNEC | 16 ^{mg} / _l | aquatic organisms | aquatic organisms sewage treatment plant (STP) | | | |
| PNEC | 0.129 ^{mg} / _{kg} | aquatic organisms | freshwater sediment | short-term (single instance) | | |
| PNEC | 0.013 ^{mg} / _{kg} | aquatic organisms | marine sediment | short-term (single instance) | | |
| PNEC | 0.024 ^{mg} / _{kg} | terrestrial organisms soil | | short-term (single instance) | | |

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

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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

FKM (fluoro rubber)

material thickness

0,4 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: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | liquid |
|--|---|
| Colour | clear |
| Odour | characteristic |
| Melting point/freezing point | -35.8 °C at 1,013 hPa (ECHA) |
| Boiling point or initial boiling point and boiling range | 207.6 °C at 1,013 hPa (ECHA) |
| Flammability | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit | not determined |

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| Flash point | not determined |
|---|--|
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not determined |
| Solubility(ies) | |
| Water solubility | 0.045 ^g / _l at 20 °C (ECHA) |
| Partition coefficient | |
| Partition coefficient n-octanol/water (log value): | 3.78 (23 °C) (ECHA) |
| Soil organic carbon/water (log KOC) | 2.7 (ECHA) |
| | |
| Vapour pressure | 0.34 hPa at 20 °C |
| Density and/or relative density | |
| Density | 0.97 ^g / _{cm³} at 20 °C (ECHA) |
| Relative vapour density | Information on this property is not available. |
| | |
| Particle characteristics | not relevant (liquid) |
| Other safety parameters | |
| Oxidising properties | none |
| 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. |

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

May form explosive peroxides.

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

10.4 Conditions to avoid

UV-radiation/sunlight. Contact with air/oxygen.

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- **10.5** Incompatible materials Rubber articles, different plastics
- **10.6 Hazardous decomposition products** Hazardous combustion products: see section 5. Peroxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed.

| Acute toxicity | | | | | |
|----------------|----------|--------------------------------------|--------|--------|--------|
| Exposure route | Endpoint | Value Species | | Method | Source |
| oral | LD50 | 2,860 ^{mg} / _{kg} | rat | | ECHA |
| dermal | LD50 | 16,800 ^{mg} / _{kg} | rabbit | | ECHA |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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

Suspected of causing cancer.

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).

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

aspiration hazard

• If in eyes

Causes serious eye irritation

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• If inhaled

Data are not available.

• If on skin

causes skin irritation

• Other information

none

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

Toxic to aquatic life with long lasting effects.

| Endpoint | Value | Species | Source | Exposure time |
|----------|----------------------------------|-----------------------|--------|------------------|
| LC50 | 3.2 ^{mg} / _l | fish | ECHA | 96 h |
| EC50 | 9.5 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h |
| ErC50 | 11 ^{mg} / _l | algae | ECHA | 72 h |

| Endpoint | Value | Species | Source | Exposure time |
|----------|----------------------------------|----------------|--------|------------------|
| EC50 | 402 ^{mg} / _l | microorganisms | ECHA | 5 h |

12.2 Persistence and degradability

Theoretical Oxygen Demand: 3.146 ^{mg}/_{mg} Theoretical Carbon Dioxide: 3.329 ^{mg}/_{mg}

Biodegradation

The substance is readily biodegradable.

| Process of degradability | | |
|--------------------------|------------------|------|
| Process | Degradation rate | Time |
| oxygen depletion | 81 % | 28 d |

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

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| n-octanol/water (log KOW) | 3.78 (23 °C) (ECHA) |
|---------------------------|----------------------|
| BCF | 162.4 – 1,514 (ECHA) |

12.4 Mobility in soil

| The Organic Carbon normalised adsorption coefficient | 2.7 (ECHA) |
|--|------------|
|--|------------|

12.5 Results of PBT and vPvB assessment

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

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

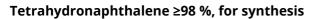
H11 Toxic (Delayed or chronic)

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.

| SEC | SECTION 14: Transport information | | | | |
|------|-----------------------------------|--|--|--|--|
| 14.1 | .1 UN number | | | | |
| | UN RTDG | UN 3082 | | | |
| | IMDG-Code | UN 3082 | | | |
| | ICAO-TI | UN 3082 | | | |
| 14.2 | UN proper shipping name | | | | |
| | UN RTDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S. | | | |

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|-----------------------------|--|
| | |

| | IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S. |
|------|--|--|
| | ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| | Technical name | Tetrahydronaphthalene |
| 14.3 | Transport hazard class(es) | |
| | UN RTDG | 9 |
| | IMDG-Code | 9 |
| | ICAO-TI | 9 |
| 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 | Information for each of the UN Model Regulation | ons |
| | Transport informationNational regulationsAdd | itional information(UN RTDG) |
| | UN number | 3082 |
| | Class | 9 |
| | Environmental hazards | Yes Hazardous to the aquatic environment |
| | Packing group | III |
| | Danger label(s) | 9 Fish and tree |
| | | |
| | Special provisions (SP) | 274, 331, 335, 375 UN RTDG |
| | Excepted quantities (EQ) | E1 UN RTDG |
| | Limited quantities (LQ) | 5 L UN RTDG |
| | Emergency Action Code | 3Z |

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| International Maritime Dangerous Goods Code (IMDG) - Additional information | | |
|--|--|--|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S. | |
| Particulars in the shipper's declaration | UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Tetrahydronaphthalene), 9, III | |
| Marine pollutant | Yes (hazardous to the aquatic environment), (Tetrahy- dronaphthalene) | |
| Danger label(s) | 9, "Fish and tree" | |
| | | |
| Special provisions (SP) | 274, 335, 969 | |
| Excepted quantities (EQ) | E1 | |
| Limited quantities (LQ) | 5 L | |
| EmS | F-A, S-F | |
| Stowage category | A | |
| International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information | | |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s. | |
| Particulars in the shipper's declaration | UN3082, Environmentally hazardous substance, liquid, n.o.s., (Tetrahydronaphthalene), 9, III | |
| Environmental hazards | Yes (hazardous to the aquatic environment) | |
| Danger label(s) | 9, "Fish and tree" | |
| | | |
| Special provisions (SP) | A97, A158, A197, A215 | |
| Excepted quantities (EQ) | E1 | |
| Limited quantities (LQ) | 30 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.

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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 |
| 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

| AIIĊ | Australian Inventory of Industrial Chemicals |
|------------|---|
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | 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 |
|---------|--|---|--------------------------|
| 2.2 | | Hazard statements: change in the listing (table) | yes |
| 2.3 | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

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Abbreviations and acronyms

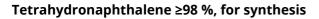
| Abbr. | Descriptions of used abbreviations |
|-----------|--|
| BCF | Bioconcentration factor |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| 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 |
| 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 |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |

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).

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

| Code | Text |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |

Disclaimer

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