acc. to Safe Work Australia - Code of Practice

Ammonium monovanadate ≥ 99%, extra pure

article number: 9923 date of compilation: 2021-07-27 Version: GHS 2.0 en Revision: 2024-03-02

Replaces version of: 2021-07-27

Version: (GHS 1)

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

Product identifier 1.1

Identification of the substance **Ammonium monovanadate** ≥ 99%, extra pure

Article number 9923

CAS number 7803-55-6

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

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:

2.1

sicherheit@carlroth.de e-mail (competent person):

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

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.) | 4 | Acute Tox. 4 | H332 |
| 3.3 | Serious eye damage/eye irritation | 2A | Eye Irrit. 2A | H319 |
| 3.7 | Reproductive toxicity | 2 | Repr. 2 | H361fd |

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| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|--|---------------|---------------------------|---------------------|
| 3.9 | Specific target organ toxicity - repeated exposure | 1 | STOT RE 1 | H372 |

For full text of abbreviations: see SECTION 16

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 Toxic if swallowed

H319 Causes serious eye irritation

H332 Harmful if inhaled

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child H372 Causes damage to organs (respiratory tract) through prolonged or repeated ex-

posure (if inhaled)

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P321 Specific treatment (see on this label)

P330 Rinse mouth

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant

For professional users only

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 \geq 0,1%.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Ammonium monovanadate

Molecular formula $\mathrm{NH_4VO_3}$ Molar mass $\mathrm{117~g/_{mol}}$ CAS No 7803-55-6

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.

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

Rinse mouth immediately and drink plenty of water. Call a physician immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Circulatory collapse, Gastrointestinal complaints, Cough, Diarrhoea, Nausea, Vomiting, Spasms, 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

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5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Ammonia (NH3), Nitrogen oxides (NOx)

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



der Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Provide adequate ventilation.

Environmental precautions

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

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.

6.4 Reference to other sections

patible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid exposure. Avoid dust formation. Clear contaminated areas thoroughly.

Advice on general occupational hygiene

Conditions for safe storage, including any incompatibilities

Store in a dry place.

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Unsuitable extinguishing media

water jet

Non-combustible.

Hazardous combustion products

Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to un-

6.2

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose

Covering of drains. Take up mechanically.

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incom-

7.1

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

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

7.2

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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

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/ m³] | Nota- tion | Source |
|-------------|----------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|--------|
| AU | nuisance dusts | | WES | 10 | | | i | WES |

Notation

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

Inhalable fraction

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

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) TWA

Human health values

Relevant DNELs and other threshold levels Threshold **Endpoint** Protection goal, **Used in Exposure time** level route of exposure DNEL 0.64 mg/m³ human, inhalatory chronic - systemic effects worker (industry) DNEL 0.18 mg/m³ human, inhalatory worker (industry) chronic - local effects DNEL 0.92 ma/m³ acute - local effects human, inhalatory worker (industry)

Environmental values

| Relevant | Relevant PNECs and other threshold levels | | | | | | |
|---------------|---|-------------------|--------------------------------|------------------------------|--|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | | |
| PNEC | 6.93 ^{µg} / _l | aquatic organisms | water | intermittent release | | | |
| PNEC | 7.6 ^{µg} / _l | aquatic organisms | freshwater | short-term (single instance) | | | |
| PNEC | 2.5 ^{µg} / _l | aquatic organisms | marine water | short-term (single instance) | | | |

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short-term (single instance)

| Reievani | Relevant PNECS and other threshold levels | | | | | | | |
|---------------|---|-------------------|---------------------------------|------------------------------|--|--|--|--|
| End- point | Threshold level | Organism | Environmental com- partment | Exposure time | | | | |
| PNEC | 450 ^{µg} / _l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) | | | | |
| PNEC | 240 ^{mg} / _{kg} | aquatic organisms | freshwater sediment | short-term (single instance) | | | | |
| PNEC | 79 ^{mg} / _{kg} | aguatic organisms | marine sediment | short-term (single instance) | | | | |

soil

8.2 Exposure controls

PNEC

Individual protection measures (personal protective equipment)

terrestrial organisms

Eve/face protection





Use safety goggle with side protection.

7.2 ^{mg}/_{kg}

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 considerable 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





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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

Form powder

Colour colourless - light yellow

Odour odourless

Melting point/freezing point 200 °C (slow decomposition)

Boiling point or initial boiling point and boiling not determined

range

Flammability non-combustible
Lower and upper explosion limit not determined
Flash point not applicable
Auto-ignition temperature not determined
Decomposition temperature 200 °C (ECHA)

pH (value) 6 (in aqueous solution: 7.8 ^g/_l, 20 °C)

Kinematic viscosity not relevant

Solubility(ies)

Water solubility 7.81 9 / $_{1}$ at 20 $^{\circ}$ C (ECHA)

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

Vapour pressure not determined

Density and/or relative density

Density $2.3 \, {}^{9}/_{cm^3}$ at 20 ${}^{\circ}\text{C}$

Relative vapour density Information on this property is not available.

Bulk density $1,000 \text{ kg/m}^3$

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

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Information with regard to physical hazard

classes:

(physical hazards): not relevant

hazard classes acc. to GHS

Other safety characteristics:

There is no additional information.

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, Acids, **Release of an acute toxic gas:** Caustic solutions

=> Ammonia (NH3)

10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: 200 °C.

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. Harmful if inhaled.

GHS of the United Nations, annex 4. May be harmful in contact with skin.

Acute toxicity

| Exposure route | Endpoint | Value | Species | Method | Source |
|---------------------------|----------|---------------------------------------|---------|--------|--------|
| oral | LD50 | 218.1 ^{mg} / _{kg} | rat | | ECHA |
| inhalation: dust/ mist | LC50 | 2.61 ^{mg} / _l /4h | rat | | ECHA |
| dermal | LD50 | >2,500 ^{mg} / _{kg} | rat | | ECHA |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

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Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

Causes damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

| Hazard category | Target organ | Exposure route |
|-----------------|-------------------|----------------|
| 1 | respiratory tract | if inhaled |

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

diarrhoea, vomiting, nausea, gastrointestinal complaints

• If in eyes

Causes serious eye irritation

• If inhaled

Data are not available.

• If on skin

Data are not available.

Other information

This information is based upon the present state of our knowledge.

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 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 | 9,005 ^{µg} / _l | fish | ECHA | 24 h | |
| ErC50 | 2,907 ^{µg} / _l | algae | ECHA | 72 h | |
| EC50 | 989.4 ^{µg} / _l | algae | ECHA | 72 h | |

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Aquatic toxicity (chronic)

| Endpoint | Value | Species | Source | Exposure time |
|----------|-------------------------------------|----------------|--------|------------------|
| LC50 | 44,000 ^{µg} / _l | fish | ECHA | 24 h |
| EC50 | >100 ^{mg} / _I | microorganisms | ECHA | 3 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

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 \geq 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.

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SECTION 14: Transport information

14.1 UN number

UN 2859
IMDG-Code UN 2859
ICAO-TI UN 2859

14.2 UN proper shipping name

UN RTDGAMMONIUM METAVANADATEIMDG-CodeAMMONIUM METAVANADATEICAO-TIAmmonium metavanadate

14.3 Transport hazard class(es)

UN RTDG 6.1
IMDG-Code 6.1
ICAO-TI 6.1

14.4 Packing group

UN RTDG II
IMDG-Code II
ICAO-TI II

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 instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport informationNational regulationsAdditional information(UN RTDG)

UN number 2859
Class 6.1
Environmental hazards Yes

Hazardous to the aquatic environment

Packing group II

Danger label(s) 6.1

Fish and tree



Special provisions (SP)

UN RTDG

Excepted quantities (EQ) E4

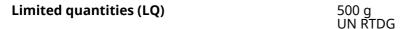
UN RTDG

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Emergency Action Code 22

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name AMMONIUM METAVANADATE

Particulars in the shipper's declaration UN2859, AMMONIUM METAVANADATE, 6.1, II,

MARINE POLLUTANT

Marine pollutant yes (hazardous to the aquatic environment)

Danger label(s) 6.1, "Fish and tree"

Special provisions (SP)

Excepted quantities (EQ) E4
Limited quantities (LQ) 500 g
EmS F-A, S-A

Stowage category A

Segregation group 2 - Ammonium compounds

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Ammonium metavanadate

Particulars in the shipper's declaration UN2859, Ammonium metavanadate, 6.1, II

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 6.1

Excepted quantities (EQ) E4
Limited quantities (LQ) 1 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 |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

AIIC Australian Inventory of Industrial Chemicals
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

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 |
|---------|---------------------------|---|--------------------------|
| 2.2 | | Hazard statements: change in the listing (table) | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 14.8 | | Emergency Action Code: 2Z | yes |
| 15.1 | | 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. | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|---------------------------|--|--------------------------|
| 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 | |
| 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 Nations | |
| 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 | |

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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. | |
| H319 | Causes serious eye irritation. | |
| H332 | Harmful if inhaled. | |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. | |
| H372 | Causes damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled). | |

Disclaimer

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

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