

SAFETY DATA SHEET



n-Propanol
10570

Version / Revision
Supersedes Version

4.01
4.00***

Revision Date
Issuing date

28-Feb-2022
28-Feb-2022

SECTION 1: Identification

1.1. Product identifier

Identification of the
substance/preparation

n-Propanol

CAS-No

71-23-8

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

Use of the Substance /
Preparation
Uses advised against

Intermediate
lubricant
None

1.3. Details of the supplier of the safety data sheet

Supplier

OQ Chemicals Corporation
15375 Memorial Drive
West Memorial Place I
Suite 300
Houston, TX 77079
USA
Phone +1 346 378 7300

Product Information

Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number NCEC +1 202 464 2554
available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Serious eye damage/eye irritation Category 1, H318
Target Organ Systemic Toxicant - Single exposure Category 3, H336
Flammable liquid Category 3, H226

OSHA Specified Hazards

Not applicable.

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2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

Hazard symbol(s)



Signal word

Danger

Hazard statements

H226: Flammable liquid and vapor.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.

Precautionary statements

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.
P242: Use non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing gas/mist/vapours.
P271: Use only outdoors or in a well ventilated area.
P280: Wear protective gloves/eye protection/face protection.***

Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

Storage

P403 + P235: Store in a well ventilated place. Keep cool.
P405: Store locked up.

Disposal

P501: Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

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Vapours may form explosive mixture with air
Components of the product may be absorbed into the body by inhalation and ingestion

SECTION 3: Composition / information on ingredients

3.1. Substances

| Component | CAS-No | Concentration (%) |
|-------------|---------|-------------------|
| Propan-1-ol | 71-23-8 | > 99,8 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Skin

Wash off immediately with plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

Main symptoms

gastrointestinal discomfort, dizziness, drowsiness, nausea, weakness, abdominal pain, vomiting.

Special hazard

central nervous system effects, Lung irritation, Prolonged skin contact may defat the skin and produce dermatitis.

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

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. If ingested, irrigate the stomach using activated charcoal.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Vapours may form explosive mixture with air

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

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For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Do not use compressed air for filling, discharging or handling.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Incompatible products

strong oxidizing agents
strong acids

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Store at temperatures not exceeding 38 °C/ 100 °F.

Unsuitable material

Attacks some forms of plastic and rubber

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits United States of America

US ACGIH

| Component | TWA (mg/m ³) | TWA (ppm) | STEL (mg/m ³) | STEL (ppm) |
|-------------|-----------------------------|--------------|------------------------------|---------------|
| Propan-1-ol | | 100 | | |

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| | | | | |
|-----------------------------|-----------------|------------------------------|----------------------------|------------------------------------|
| CAS: 71-23-8 | | | | |
| Component | Asphyxia | Carcinogenic category | Included w/o limits | Exposure as low as possible |
| Propan-1-ol CAS: 71-23-8 | | A4 | | |

US OSHA Z-1

| Component | Ceiling (mg/m³) | Ceiling (ppm) | PEL (mg/m³) | PEL (ppm) | Skin Designation |
|-----------------------------|-----------------------------------|----------------------|-------------------------------|------------------|-------------------------|
| Propan-1-ol CAS: 71-23-8 | | | 500 | 200 | |

Note

For details and further information please refer to the original regulation.

8.2. Exposure controls

Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Individual protection measures, such as personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

| | |
|---------------------------|------------------------------|
| Suitable material | nitrile rubber |
| Evaluation | according to EN 374: level 6 |
| Glove thickness | approx 0,55 mm |
| Break through time | > 480 min |

| | |
|--------------------------|------------------------------|
| Suitable material | butyl-rubber |
| Evaluation | according to EN 374: level 6 |
| Glove thickness | approx 0,3 mm |

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Break through time > 480 min

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.

Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|---|
| Appearance | liquid |
| Colour | colourless |
| Odour | alcoholic |
| Odour threshold | < 0,07 - 100 mg/m ³ |
| pH | No data available |
| Melting point/range | < -130 °F (< -90 °C) (Pour point) |
| Method | DIN ISO 3016 |
| Boiling point/range | 206,6 °F (97 °C) @ 1 atm (101,3 kPa) |
| Method | OECD 103 |
| Flash point | 73,4 °F (23 °C) @ 1013 hPa*** |
| Method | ISO 2719*** |
| Evaporation rate | 1,0 (n-Butyl acetate = 1) |
| Flammability (solid, gas) | Does not apply, the substance is a liquid |
| Lower explosion limit | 2,1 Vol % |
| Upper explosion limit | 13,5 Vol % |

Vapour pressure

| Values [hPa] | Values [kPa] | Values [atm] | @ °C | @ °F | Method |
|--------------|--------------|--------------|------|------|-------------------|
| 26 | 2,6 | 0,026 | 20 | 68 | DIN EN 13016-2 |
| 133 | 13,3 | 0,133 | 50 | 122 | DIN EN 13016-2 |

Vapour density 2,1 (Air = 1) @ 20 °C (68 °F)

Relative density

| Values | @ °C | @ °F | Method |
|--------|------|------|-----------|
| 0,8036 | 20 | 68 | DIN 51757 |

Solubility

miscible, in water, OECD 105

log Pow

0,2 @ 25 °C (77 °F) OECD 117***

Autoignition temperature

743 °F (395 °C) @ 1004 hPa

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| | |
|---------------------------|----------------------------|
| Method | DIN 51794 |
| Decomposition temperature | No data available |
| Viscosity | 2,21 mPa*s @ 68 °F (20 °C) |
| Method | ASTM D445, dynamic |

9.2. Other information

| | |
|-----------------------|---|
| Molecular weight | 60,10 |
| Molecular formula | C ₃ H ₈ O |
| log Koc | 0,633 calculated*** |
| Dissociation constant | 16,1 (calculated)*** |
| Oxidizing properties | Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties |
| Refractive Index | 1,383 - 1,385 @ 68 °F (20 °C) |
| Heat of combustion | 2021 kJ/mol @ 25 °C (77 °F) |
| Explosive properties | Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties |
| Surface tension | 70,8 mN/m (1 g/l @ 20°C (68°F)), OECD 115 |

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

strong oxidizing agents, strong acids.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

Propan-1-ol, CAS: 71-23-8

Main symptoms

central nervous system depression, gastrointestinal discomfort, dizziness, drowsiness, nausea, weakness, abdominal pain, vomiting.

Target Organ Systemic Toxicant - Single exposure

The available data lead to the classification given in section 2

Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:
STOT RE

| Acute toxicity | | | | |
|------------------------------|----------|-------------------|------------------|--------------------|
| Propan-1-ol (71-23-8) | | | | |
| Routes of Exposure | Endpoint | Values | Species | Method |
| Oral | LD50 | 1870-8000 mg/kg | rat | Weight of evidence |
| Inhalative | LC50 | > 33,8 mg/l (4 h) | rat, male/female | OECD 403 |
| Dermal | LD50 | 4032 mg/kg | rabbit male*** | OECD 402 |

Propan-1-ol, CAS: 71-23-8

Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

| Irritation and corrosion | | | | |
|---------------------------------|----------|--------------------|----------|-----------|
| Propan-1-ol (71-23-8) | | | | |
| Target Organ Effects | Species | Result | Method | |
| Skin | rabbit | No skin irritation | OECD 404 | |
| Eyes | rabbit | severe irritation | OECD 405 | |
| Respiratory tract*** | mouse*** | RD50: 12704 ppm*** | | 10 min*** |

Propan-1-ol, CAS: 71-23-8

Assessment

The available data lead to the classification given in section 2***

| Sensitization | | | | |
|------------------------------|------------|--------------------|---|--|
| Propan-1-ol (71-23-8) | | | | |
| Target Organ Effects | Species | Evaluation | Method | |
| Skin | mouse | not sensitizing | MEST | |
| Skin | guinea pig | not sensitizing | OECD 406 | |
| Skin*** | human*** | not sensitizing*** | Human repeat insult patch test (HRIPT)*** | |

Propan-1-ol, CAS: 71-23-8

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Assessment

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

| Subacute, subchronic and prolonged toxicity | | | | |
|---|-----------------------------------|---------------------|------------------------|--|
| Propan-1-ol (71-23-8) | | | | |
| Type | Dose | Species | Method | |
| Subacute toxicity | NOAEC: 1000 ppm | rat, male/female | Inhalation | |
| Subchronic toxicity*** | NOAEC: 8000 mg/m ³ *** | rat, male/female*** | OECD 413 Inhalation*** | |

Propan-1-ol, CAS: 71-23-8

Assessment

Based on available data, the classification criteria are not met for:

STOT RE

| Carcinogenicity, Mutagenicity, Reproductive toxicity | | | | | |
|--|------------------------------------|-----------------------------------|------------|------------------------------------|---------------------------|
| Propan-1-ol (71-23-8) | | | | | |
| Type | Dose | Species | Evaluation | Method | |
| Mutagenicity | | CHO (Chinese Hamster Ovary) cells | negative | OECD 476 (Mammalian Gene Mutation) | In vitro study |
| Mutagenicity | | Salmonella typhimurium | negative | OECD 471 (Ames) | In vitro study |
| Mutagenicity | | V79 cells, Chinese hamster | negative | OECD 473 (Chromosomal Aberration) | In vitro study |
| Developmental Toxicity | NOAEC: 17460 mg/m ³ | rat | | OECD 414, Inhalative | Maternal toxicity*** |
| Developmental Toxicity | NOAEC: 8730 mg/m ³ *** | rat | | OECD 414, Inhalative | Developmental toxicity*** |
| Developmental Toxicity*** | LOAEC: 17460 mg/m ³ *** | rat*** | | OECD 414, Inhalative*** | Developmental toxicity*** |
| Reproductive toxicity*** | NOEC 8730 mg/m ³ *** | rat male/female*** | | OECD 413 Inhalation*** | Fertility*** |
| Reproductive toxicity*** | LOAEC: 17460 mg/m ³ *** | rat, male/female*** | | OECD 413 Inhalation*** | Fertility*** |

Propan-1-ol, CAS: 71-23-8

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

In vitro tests did not show mutagenic effects

Propan-1-ol, CAS: 71-23-8

Aspiration toxicity

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Based on the viscosity a potential aspiration hazard cannot be excluded

Other adverse effects

Components of the product may be absorbed into the body by inhalation and ingestion.

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

12.1. Toxicity

| Acute aquatic toxicity | | | |
|--------------------------------------|---------------|-------------------------------|--------------------|
| Propan-1-ol (71-23-8) | | | |
| Species | Exposure time | Dose | Method |
| Daphnia magna (Water flea) | 48h | EC50: 3644 mg/l | DIN 38412, part 11 |
| Gammarus pulex | 48h | LC50: 1000 mg/l | |
| Pseudokirchneriella subcapitata | 48h | EC50: 9170 mg/l (Growth rate) | |
| Chlorella pyrenoidosa | 48h | NOEC: 1150 mg/l | Growth rate |
| Pimephales promelas (fathead minnow) | 96h | LC50: 4555 mg/l | OECD 203 |
| Activated sludge (domestic) | 3 h | IC50: > 1000 mg/l | OECD 209 |

| Long term toxicity | | | | |
|--------------------------|-------------------------------|---------------------------|----------------|----------------|
| Propan-1-ol (71-23-8) | | | | |
| Type | Species | Dose | Method | |
| Reproductive toxicity*** | Daphnia magna (Water flea)*** | NOEC: > 100 mg/l (21d)*** | OECD 211*** | read across*** |
| Reproductive toxicity*** | Daphnia magna (Water flea)*** | NOEC: 68,3 mg/l (21d)*** | QSAR*** | |
| Aquatic toxicity*** | Chlorella pyrenoidosa*** | NOEC: 1150 mg/l*** | Growth rate*** | |

12.2. Persistence and degradability

Propan-1-ol, CAS: 71-23-8

Biodegradation

75 % (20 d), Readily biodegradable, Sewage, domestic, aerobic, non-adapted, Closed Bottle test.

| Abiotic Degradation | | |
|-----------------------|---------------------------------|--------|
| Propan-1-ol (71-23-8) | | |
| Type | Result | Method |
| Hydrolysis | not expected | |
| Photolysis | Half-life (DT50): 3 d @ 23°C*** | |

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12.3. Bioaccumulative potential

| Propan-1-ol (71-23-8) | | |
|-----------------------|------------------------|--------------------|
| Type | Result | Method |
| log Pow | 0,2 @ 25 °C (77 °F)*** | measured, OECD 117 |
| BCF | 0,88 | calculated |

12.4. Mobility in soil

| Propan-1-ol (71-23-8) | | |
|--|---|------------|
| Type | Result | Method |
| Surface tension | 70,8 mN/m (1 g/l @ 20°C (68°F)) | OECD 115 |
| Adsorption/Desorption | log Koc: 0,633 | calculated |
| Distribution to environmental compartments | Air: 3,87% Soil: 0% Water: 96,13% Sediment: 0*** | |

12.5. Results of PBT and vPvB assessment

Propan-1-ol, CAS: 71-23-8

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

Propan-1-ol, CAS: 71-23-8

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

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D.O.T. (49CFR)

| | |
|------------------------------------|------------|
| 14.1. UN number | UN 1274 |
| 14.2. UN proper shipping name | n-Propanol |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | no |
| 14.6. Special precautions for user | |
| Emergency Response Guide | 129 |

ICAO-TI / IATA-DGR

| | |
|------------------------------------|-------------------|
| 14.1. UN number | UN 1274 |
| 14.2. UN proper shipping name | n-Propanol |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | no |
| 14.6. Special precautions for user | no data available |

IMDG

| | |
|--|------------------|
| 14.1. UN number | UN 1274 |
| 14.2. UN proper shipping name | n-Propanol |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | no |
| 14.6. Special precautions for user | |
| EmS | F-E, S-D |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| Product name | n-Propyl alcohol |
| Ship type | 3 |
| Pollution category | Y |

SECTION 15: Regulatory information

Federal and State Regulations

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

Federal Regulations

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This product is listed on the TSCA inventory

State Regulations

Propan-1-ol, CAS: 71-23-8

CA Hazardous Substances (Director's) List
MA RTK List
MN Hazardous Substances List
NY RTK List
PA RTK List
RI RTK List

International Inventories

Propan-1-ol, CAS: 71-23-8

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2007469 (EU)
ENCS (2)-207 (JP)
ISHL (2)-207 (JP)
KECI KE-29362 (KR)
INSQ (MX)
PICCS (PH)
TSCA (US)
NZIoC (NZ)***
TCSI (TW)

SECTION 16: Other information

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Issuing date 28-Feb-2022

Hazard Rating Systems

NFPA (National Fire Protection Association)

Health Hazard 1
Fire Hazard 3
Reactivity 0

HMIS (Hazardous Material Information System)

Health Hazard 2
Flammability 3
Physical Hazard 0

Training advice

For effective first-aid, special training / education is needed.

Emergency telephone number
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Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

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End of Safety Data Sheet