according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



2-Methylbutanal

10790

Version / Revision4Revision Date28-Oct-2022Supersedes Version3.00***Issuing date28-Oct-2022

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

1.1. Product identifier

Identification of the substance/preparation

2-Methylbutanal

CAS-No 96-17-3 **EC No.** 202-485-6

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

Identified uses Transported isolated intermediate (1907/2006)

Uses advised against None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking

Identification

OQ Chemicals GmbH Rheinpromenade 4A

D-40789 Monheim

Germany

Product Information Product Stewardship

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

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK)

available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Flammable liquid Category 2, H225

Serious eye damage/eye irritation Category 2, H319

Skin sensitization Category 1, H317

Target Organ Systemic Toxicant - Single exposure Category 3, H335

Environmental hazard Aquatic Chronic 2; H411

Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

Hazard pictograms

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Signal word Danger

Hazard statements H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P233: Keep container tightly closed. P261: Avoid breathing gas/mist/vapours.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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.

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

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

2.3. Other hazards

Vapours may form explosive mixture with air

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback Components of the product may be absorbed into the body by inhalation, ingestion and through the skin

PBT and vPvB assessment Not required

Endocrine disrupting

assessments

The substance is not listed on the candidate list according to Art. 59(1), REACh. The substance was not assessed as having endocrine disrupting properties

according to regulation 2017/2100/EU or 2018/605/EU.

SECTION 3: Composition / information on ingredients

3.1. Substances

| Component | CAS-No | 1272/2008/EC | Concentration (%) |
|-----------------------|---------|-------------------------|-------------------|
| 2-Methylbutyraldehyde | 96-17-3 | Flam. Liq. 2; H225 | > 98,0 |
| | | Eye Irrit. 2; H319 | |
| | | Skin Sens. 1; H317 | |
| | | STOT SE 3; H335 | |
| | | Aquatic Chronic 2; H411 | |

For full text of Hazard- and EU Hazard-statements see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



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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 soap and 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. Obtain medical attention.

Ingestion

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

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

Main symptoms

shortness of breath, headache, nausea, vomiting.

Special hazard

Lung oedema, Lung irritation.

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. In case of lung irritation, first treatment with cortisone spray.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol-resistant 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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire. Water run-off can cause environmental damage.

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). Water runoff can cause environmental damage.

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. DO NOT use combustible materials such as sawdust. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

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. Refill and handle product only in closed system. 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.

Incompatible products

acids and bases amines oxidizing agents

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

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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. Handle under nitrogen, protect from moisture. Store at temperatures not exceeding 38 °C/ 100 °F.

Suitable material

stainless steel

Unsuitable material

mild steel

Temperature class

T4

7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits UK

No exposure limits established.

DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.

8.2. Exposure controls

Special adaptations (REACh)

The substance has been registered as an transported isolated intermediate and must be handled throughout its life cycle under strictly controlled conditions in accordance with Article 18.4, REACH.

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.

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

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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.

Equipment should conform to EN 166

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 butyl-rubber

Evaluation according to EN 374: level 3

Glove thickness approx 0.3 mm Break through time approx 60 min

Suitable material polyvinylchloride

Evaluation Information derived from practical experience

Glove thickness approx 0.8 mm

Skin and body protection

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

Respiratory protection

Respirator with A filter. Full mask with above mentioned filter according to producers using requirements or self-contained breathing apparatus. Equipment should conform to EN 136 or EN 140 and EN 143.

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.

Additional advice

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 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid***
Colour colourless
Odour strong
Odour threshold 1 ppb

Melting point/freezing point < -90 °C (Pour point) @ 1013 hPa

Method DIN ISO 3016 Boiling point or initial boiling 92 °C @ 1013 hPa

point and boiling range

Method OECD 103
Flammability Ignitable

Lower explosion limitNo data availableUpper explosion limitNo data availableFlash point-5 °C @ 1013 hPa

Method EU A.9

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Autoignition temperature 190 °C @ 1017 hPa

Method DIN 51794

Decomposition temperature No data available

pH 3,2 (13 g/l in water @ 20 °C (68 °F)) OECD 105

Kinematic Viscosity 0,660 mm²/s @ 20 °C***

Method OECD 114***

Solubility 13 g/l @ 20 °C, in water, OECD 105

Partition coefficient 1,23 (calculated) KOW WIN

n-octanol/water (log value)

Vapour pressure

@ °C @ °F Values [hPa] Values [kPa] Values [atm] Method 76 7,6 0,075 20 68 **DIN EN** 13016-2 259 25,9 0,256 50 122 DIN EN 13016-2

Density and/or relative density

Values @ °C @ °F Method 0,803 20 68 DIN 51757

Relative vapour density
Particle characteristics
No data available
not applicable

9.2. Other information

Explosive properties Does not apply, substance is not explosive. There are no chemical groups

associated with explosive properties

Oxidizing properties Does not apply, substance is not oxidising. There are no chemical groups

associated with oxidizing properties

Molecular weight86,13Molecular formulaC5 H10 O

log Koc 0,45 - 1,37 calculated

Refractive index 1,39 @ 20 °C

Surface tension 48,8 mN/m (1 g/l @ 20°C (68°F)), OECD 115

Evaporation rate No data available

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

Hazardous reactions occur in the presence of acids, base or oxidizing agents. This reaction is exothermic and may create heat. When finely distributed, self-ignition is possible. May form explosive peroxides.

10.4. Conditions to avoid

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

10.5. Incompatible materials

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



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bases, amines, acids, oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

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

| Acute toxicity | | | | | |
|---------------------------------|----------|----------------|-------------|----------|--|
| 2-Methylbutyraldehyde (96-17-3) | | | | | |
| Routes of Exposure | Endpoint | Values | Species | Method | |
| Oral | LD50 | 6884 mg/kg | rat male | OECD 401 | |
| Dermal | LD50 | 5400 mg/kg | rabbit male | OECD 402 | |
| Inhalative | LC50 | 50,5 mg/l (4h) | rat | OECD 403 | |

2-Methylbutyraldehyde, CAS: 96-17-3

Assessment

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

Acute oral toxicity
Acute dermal toxicity
Acute inhalation toxicity

| Irritation and corrosion | n | | | |
|--------------------------|-----------|--------------------------|----------|----------------|
| 2-Methylbutyraldehyde | (96-17-3) | | | |
| Target Organ Effects | Species | Result | Method | |
| Skin | rabbit | Moderate skin irritation | OECD 404 | read across 4h |
| Eyes | rabbit | irritating | | read across |

2-Methylbutyraldehyde, CAS: 96-17-3

Assessment

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

| Sensitization | | | | |
|-----------------------|-----------|-------------|----------|--|
| 2-Methylbutyraldehyde | (96-17-3) | | | |
| Target Organ Effects | Species | Evaluation | Method | |
| Skin | mouse | sensitizing | OECD 429 | |

2-Methylbutyraldehyde, CAS: 96-17-3

Assessment

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

For respiratory sensitization, no data are available

| Subacute, subchronic and prolonged toxicity | | | | | |
|---|----------------|-----------|---------------------|-------------|--|
| 2-Methylbutyraldehy | yde (96-17-3) | | | | |
| Туре | Dose | Species | Method | | |
| Chronic toxicity | NOAEC: 500 ppm | rat mouse | OECD 453 Inhalation | read across | |
| | (24 month) | | | | |

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2-Methylbutyraldehyde, CAS: 96-17-3

Assessment

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

STOT RE

| Carcinogenicity, Muta | genicity, Reprodu | uctive toxicity | | | |
|-----------------------|--------------------|-------------------------------|---|--|----------------------------|
| 2-Methylbutyraldehyd | | - | | | |
| Туре | Dose | Species | Evaluation | Method | |
| Mutagenicity | | Salmonella typhimurium | negative (without metabolic activation) | OECD 471 (Ames) | In vitro study read across |
| Mutagenicity | | V79 cells, Chinese hamster | metabolic | OECD 476 (Mammalian Gene Mutation) HPRT | In vitro study read across |
| Mutagenicity | | rat, hepatocytes | positive | OECD 482 UDS test | In vitro study read across |
| Mutagenicity | | human hepatocytes | negative | OECD 482 UDS test | In vitro study read across |
| Mutagenicity | | mouse | negative | OECD 474 Micronucleus | in vivo read across |
| Reproductive toxicity | No data available | | | | |
| Carcinogenicity | NOAEC: 2000 ppm | rat mouse | negative | OECD 453 Inhalation | in vivo read across |

2-Methylbutyraldehyde, CAS: 96-17-3

CMR Classification

The available data on CMR properties do not indicate a classification into categories 1A or 1B

Evaluation

Did not show carcinogenic effects in animal experiments

2-Methylbutyraldehyde, CAS: 96-17-3

Main symptoms

shortness of breath, headache, nausea, vomiting.

Target Organ Systemic Toxicant - Single exposure

STOT SE

respiratory system

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

Aspiration toxicity

Due to the viscosity, this product does not present an aspiration hazard

11.2. Information on other hazards

Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

2-Methylbutyraldehyde, CAS: 96-17-3

Other adverse effects

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

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:

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

SECTION 12: Ecological information

12.1. Toxicity

| Acute aquatic toxicity | | | | | |
|--------------------------------------|---------------|------------------------------|----------|--|--|
| 2-Methylbutyraldehyde (96-17- | 3) | | | | |
| Species | Exposure time | Dose | Method | | |
| Daphnia magna (Water flea) | 48h | EC50: 7,2 mg/l | OECD 202 | | |
| Pseudokirchneriella subcapitata | 72h | EC50: 123 mg/l (Growth rate) | OECD 201 | | |
| Pimephales promelas (fathead minnow) | 96h | LC50: 9.97 mg/l | | | |

| Long term toxicity | | | | |
|-------------------------|---------------------------------|--|----------|--|
| 2-Methylbutyraldehyde (| 96-17-3) | | | |
| Туре | Species | Dose | Method | |
| Aquatic toxicity | Pseudokirchneriella subcapitata | NOEC: 1,43 mg/l (3d) Growth inhibition | OECD 201 | |

12.2. Persistence and degradability

2-Methylbutyraldehyde, CAS: 96-17-3

Biodegradation

54,2 % (28 d), Sewage, aerobic, OECD 301 D.

| Abiotic Degradation | | |
|-------------------------------|---------------------------|---------------|
| 2-Methylbutyraldehyde (96-17- | 3) | |
| Type | Result | Method |
| Hydrolysis | not expected | |
| Photolysis | Half-life (DT50): 14,32 h | SRC AOP v1.92 |

12.3. Bioaccumulative potential

| 2-Methylbutyraldehyde (96-17-3) | | |
|---------------------------------|-------------------|---------------------|
| Туре | Result | Method |
| log Pow | 1,23 | calculated, KOW WIN |
| BCF | No data available | |

12.4. Mobility in soil

| 2-Methylbutyraldehyde (96-17-3) | | | | |
|---------------------------------|---------------------------------|-------------------------------|--|--|
| Туре | Result | Method | | |
| Surface tension | 48,8 mN/m (1 g/l @ 20°C (68°F)) | OECD 115 | | |
| Distribution to environmental | Air: 6,52% Soil: 41,2% Water: | Calculation according Mackay, | | |
| compartments | 52,2%, | Level III | | |
| Adsorption/Desorption | log Koc: 0,45 - 1,37 calculated | | | |

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12.5. Results of PBT and vPvB assessment

12.6. Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

12.7. Other adverse effects

Note

Avoid release to the environment.

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.

Hazardous waste according to European Waste Catalogue (EWC)

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

ADR/RID

| 14.1. UN number or ID number | UN 3371 |
|------------------------------------|-----------------|
| 14.2. UN proper shipping name | 2-Methylbutanal |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | no |
| 14.6. Special precautions for user | |
| ADR Tunnel restriction code | (D/E) |
| Classification Code | F1 |
| Hazard Number | 33 |
| | |

| ADN | ADN Container |
|------|---------------|
| APII | |

| 14.1. UN number or ID number | UN 3371 |
|------------------------------------|-----------------|
| 14.2. UN proper shipping name | 2-Methylbutanal |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | no |
| 14.6. Special precautions for user | |
| Classification Code | F1 |
| Hazard Number | 33 |
| | |

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ADN Tanker forbidden

ICAO-TI / IATA-DGR

14.1. UN number or ID number UN 3371

14.2. UN proper shipping name 2-Methylbutanal

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user no data available

IMDG

14.1. UN number or ID number UN 3371

14.2. UN proper shipping name 2-Methylbutanal

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

EmS F-E, S-D

14.7. Maritime transport in bulk according ***

to IMO instruments

Product name Valeraldehyde

Ship type 3
Pollution category Y
Hazard class S/P***

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation 1272/2008, Annex VI

not listed

DI 2012/18/EU (Seveso III)

Category Annex I, part 1:

P5a - c; depending on conditions

E2

DI 1999/13/EC (VOC Guideline)

| Component | Status |
|-----------------------|-----------|
| 2-Methylbutyraldehyde | regulated |
| CAS: 96-17-3 | |

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758

| THE REPORT STORY (Amonament Story Lee Exity Regulations 2010 Not 100 | | |
|--|--|--|
| Component | Status | |
| 2-Methylbutyraldehyde | The substance will not be pre-registered | |

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CAS: 96-17-3

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

International Inventories

2-Methylbutyraldehyde, CAS: 96-17-3

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2024856 (EU)
ENCS (2)-494 (JP)
ISHL (2)-494 (JP)
KECI KE-23535 (KR)
INSQ (MX)
PICCS (PH)
TSCA (US)
NZIoC-NZ with note***

National regulatory information Great Britain

Releases to air (Pollution Inventory Substances)

not subject

TCSI (TW)

Releases to water (Pollution Inventory Substances)

not subject

Releases to sewer (Pollution Inventory Substances)

not subject

For details and further information please refer to the original regulation

15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

SECTION 16: Other information

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

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

Abbreviations

A table of terms and abbreviations can be found under the following link: http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

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

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



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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 annex is not required because the substance is registered as an intermediate under REACh

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ Chemicals makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet