SAFETY DATA SHEET

2-Ethylhexanal
10030

SECTION 1: Identification

1.1. Product identifier
Identification of the substance/preparation 2-Ethylhexanal
CAS-No 123-05-7

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance / Preparation Intermediate
Uses advised against 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).

Skin sensitization Category 1, H317
Reproductive toxicity Category 2, H361
Flammable liquid Category 3, H226
Environmental hazard Aquatic Acute 2; H401
OSHA Specified Hazards
Not applicable.

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

Hazard symbol(s)

Signal word Warning

Hazard statements
H226: Flammable liquid and vapor.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.
H401: Toxic to aquatic life

Precautionary statements
Prevention
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
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 action to prevent static discharges.
P261: Avoid breathing gas/mist/vapours.
P272: Contaminated work clothing must not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/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.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.

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.

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2.3. Other hazards
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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethylhexanal</td>
<td>123-05-7</td>
<td>&gt; 98,5</td>
</tr>
</tbody>
</table>

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 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, abdominal pain, vomiting, nausea, cough.

Special hazard
Lung oedema, Lung irritation, 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. In case of lung irritation, first treatment with cortisone spray.

SECTION 5: Firefighting measures

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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
Vapours are heavier than air and may spread along floors
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. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Take
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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.

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
acids and bases
amines
oxidizing agents
oxygen
reducing 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. Vapours may form explosive mixture with air. The product will oxidize in air and release heat. The pressure in sealed containers can increase under the influence of heat.

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. Oxidization creates acids and peroxides, that may lead to corrosive damages in storage and handling equipment.

Suitable material
stainless steel, aluminium

Unsuitable material
mild steel, iron

SECTION 8: Exposure controls / personal protection

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USA (A-US)

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8.1. Control parameters

Exposure limits United States of America

No exposure limits established.

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.

<table>
<thead>
<tr>
<th>Suitable material</th>
<th>nitrile rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation</td>
<td>according to EN 374: level 4</td>
</tr>
<tr>
<td>Glove thickness</td>
<td>approx 0.55 mm</td>
</tr>
<tr>
<td>Break through time</td>
<td>approx 80 min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suitable material</th>
<th>polyvinylchloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation</td>
<td>Information derived from practical experience</td>
</tr>
<tr>
<td>Glove thickness</td>
<td>approx 0.8 mm</td>
</tr>
</tbody>
</table>

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 (dust). Equipment should conform to NIOSH.

Environmental exposure controls

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Use product only in closed system. 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>strong</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>&lt;-148 °F (&lt;-100 °C)</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>319 °F (159,6 °C) @ 1 atm (101,3 kPa)</td>
</tr>
<tr>
<td>Flash point</td>
<td>111 °F (44 °C)</td>
</tr>
<tr>
<td>Method</td>
<td>closed cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Does not apply, the substance is a liquid</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>0,9 Vol %</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>7,2 Vol %</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
</tr>
<tr>
<td>Values [hPa]</td>
<td>2,3</td>
</tr>
<tr>
<td>Values [kPa]</td>
<td>0,2</td>
</tr>
<tr>
<td>Values [atm]</td>
<td>0,002</td>
</tr>
<tr>
<td>@ °C</td>
<td>20</td>
</tr>
<tr>
<td>@ °F</td>
<td>68</td>
</tr>
<tr>
<td>Method</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>4,4 (Air = 1) @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
</tr>
<tr>
<td>Values</td>
<td></td>
</tr>
<tr>
<td>@ °C</td>
<td>0,819</td>
</tr>
<tr>
<td>@ °F</td>
<td>20</td>
</tr>
<tr>
<td>Method</td>
<td>DIN 51757</td>
</tr>
<tr>
<td>Solubility</td>
<td>0,39 g/l @ 20 °C (68 °F), in water</td>
</tr>
<tr>
<td>log Pow</td>
<td>3,07 (measured) OECD 107</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>374 °F (190 °C)</td>
</tr>
<tr>
<td>Method</td>
<td>DIN 51794</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>0,951 mPa*s @ 68 °F (20 °C)</td>
</tr>
<tr>
<td>Method</td>
<td>dynamic, DIN 51562</td>
</tr>
</tbody>
</table>

**9.2. Other information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular weight</td>
<td>128,22</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C8 H16 O</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1,416 @ 68 °F (20 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties</td>
</tr>
<tr>
<td>Surface tension</td>
<td>47,1 mN/m (0,73 g/l @ 20°C (68°F), OECD 115</td>
</tr>
</tbody>
</table>
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 polymerisation may occur. May form explosive peroxides. When finely distributed, self-ignition is possible. Vapours may form explosive mixture with air. Auto ignition on large surfaces. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

10.4. Conditions to avoid

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

10.5. Incompatible materials

bases, amines, acids, oxidizing agents, oxygen, reducing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure

Ingestion, Inhalation, Eye contact, Skin contact

2-Ethylhexanal, CAS: 123-05-7

Main symptoms

shortness of breath, abdominal pain, vomiting, nausea, cough.

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>2-Ethylhexanal (123-05-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routes of Exposure</td>
<td>Endpoint</td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50</td>
</tr>
</tbody>
</table>

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Assessment
Based on available data, the classification criteria are not met for:
Acute oral toxicity
Acute dermal toxicity
Acute inhalation toxicity

Irritation and corrosion

<table>
<thead>
<tr>
<th>2-Ethylhexanal (123-05-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Organ Effects</td>
</tr>
<tr>
<td>Skin</td>
</tr>
<tr>
<td>Eyes</td>
</tr>
</tbody>
</table>

2-Ethylhexanal, CAS: 123-05-7
Assessment
The available data lead to the classification given in section 2
For respiratory irritation, no data are available

Sensitization

<table>
<thead>
<tr>
<th>2-Ethylhexanal (123-05-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Organ Effects</td>
</tr>
<tr>
<td>Skin</td>
</tr>
</tbody>
</table>

2-Ethylhexanal, CAS: 123-05-7
Assessment
The available data lead to a classification as skin sensitizer (see section 2)
For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity

<table>
<thead>
<tr>
<th>2-Ethylhexanal (123-05-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Subacute toxicity</td>
</tr>
</tbody>
</table>

2-Ethylhexanal, CAS: 123-05-7
Assessment
Based on available data, the classification criteria are not met for:
STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity

<table>
<thead>
<tr>
<th>2-Ethylhexanal (123-05-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Mutagenicity</td>
</tr>
<tr>
<td>Mutagenicity</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Developmental Toxicity</td>
</tr>
</tbody>
</table>

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2-Ethylhexanal, CAS: 123-05-7
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

2-Ethylhexanal, CAS: 123-05-7
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:

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity
2-Ethylhexanal (123-05-7)

<table>
<thead>
<tr>
<th>Species</th>
<th>Exposure time</th>
<th>Dose</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oncorhynchus mykiss (rainbow trout)</td>
<td>96h</td>
<td>LC50: 5,5 mg/l</td>
<td>OECD 203</td>
</tr>
<tr>
<td>Activated sludge (domestic)</td>
<td>30 min</td>
<td>EC50: 73,6 - 507,6 mg/l</td>
<td>ISO 8192</td>
</tr>
<tr>
<td>Daphnia magna (Water flea)</td>
<td>48h</td>
<td>EC50: 4,7 mg/l</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Pseudokirchneriella subcapitata</td>
<td>72h</td>
<td>EC50: 6,9 mg/l (Growth rate)</td>
<td>OECD 201</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

2-Ethylhexanal, CAS: 123-05-7
Biodegradation
71.8 % (28 d), activated sludge (domestic), aerobic, OECD 301 F.

12.3. Bioaccumulative potential

2-Ethylhexanal (123-05-7)

<table>
<thead>
<tr>
<th>Type</th>
<th>Result</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>log Pow</td>
<td>3.07</td>
<td>measured, OECD 107</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

2-Ethylhexanal (123-05-7)

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12.5. Results of PBT and vPvB assessment

2-Ethylhexanal, CAS: 123-05-7
PBT and vPvB assessment
Not required

12.6. Other adverse effects

2-Ethylhexanal, CAS: 123-05-7
No data available

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.

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

D.O.T. (49CFR)

14.1. UN number
UN 1191
14.2. UN proper shipping name
Octyl aldehydes
14.3. Transport hazard class(es)
3
14.4. Packing group
III
14.5. Environmental hazards
Marking Fish and tree
Marine pollutant yes
14.6. Special precautions for user
Emergency Response Guide
Remarks
129
Limited MP Exemptions for ≤ 5L and Non-Bulk packaging
## ICAO-TI / IATA-DGR

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>UN 1191</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Octyl aldehydes</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>III</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>no</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>no data available</td>
</tr>
</tbody>
</table>

## IMDG

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>UN 1191</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Octyl aldehydes</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>III</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>no</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>F-E, S-D</td>
</tr>
</tbody>
</table>

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

<table>
<thead>
<tr>
<th>Product name</th>
<th>Octyl aldehydes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship type</td>
<td>3</td>
</tr>
<tr>
<td>Pollution category</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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**
This product is listed on the TSCA inventory

**State Regulations**
2-Ethylhexanal, CAS: 123-05-7
- MA RTK List
- NJ RTK List
- NY RTK List
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PA RTK List

International Inventories

2-Ethylhexanal, CAS: 123-05-7
   AICS (AU)
   DSL (CA)
   IECSC (CN)
   EC-No. 2045965 (EU)
   ENCS (2)-494 (JP)
   ISHL (2)-494 (JP)
   ISHL 2-(8)-34 (JP)
   INSQ (MX)
   PICCS (PH)
   TSCA (US)
   NZIoC-NZ May be used as single component chemical
   TCSI (TW)

SECTION 16: Other information

Revision Date 04-May-2020
Issuing date 15-May-2020

Hazard Rating Systems

NFPA (National Fire Protection Association)
   Health Hazard 2
   Fire Hazard 2
   Reactivity 1

HMIS (Hazardous Material Information System)
   Health Hazard 2
   Flammability 2
   Physical Hazard 1

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

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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suggest or guarantee that any hazards listed herein are the only ones which exist. OQ 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