

2-Ethylhexanol

10050

**Version / Revision** 3.01 **Revision Date** 03-Feb-2022 3.00\*\*\* **Supersedes Version** 03-Feb-2022 Issuing date

# **SECTION 1: Identification**

## 1.1. Product identifier

Identification of the 2-Ethylhexanol substance/preparation

**CAS-No** 104-76-7

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

Use of the Substance / Intermediate **Preparation** solvent 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

NCEC +1 202 464 2554 **Emergency telephone number** 

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).

Acute inhalation toxicity Category 4, H332 Skin corrosion/irritation Category 2, H315 Serious eye damage/eye irritation Category 2A, H319

Target Organ Systemic Toxicant - Single exposure Category 3, H335

Flammable liquid Category 4, H227



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Environmental hazard Aquatic Acute 3; H402

OSHA Specified Hazards Not applicable.

#### 2.2. Label elements

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

#### Hazard symbol(s)



Signal word	Warning
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Hazard statements H227: Combustible liquid

H332: Harmful if inhaled. H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H402: Harmful to aquatic life

**Precautionary statements** 

**Prevention** P210: Keep away from flames and hot surfaces. - No smoking.

P233: Keep container tightly closed.
P261: Avoid breathing gas/mist/vapours.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well ventilated area.

P273: Avoid release to the environment.

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

**Response** P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

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.

P311: Call a POISON CENTER/doctor.

P362 + P364: Take off contaminated clothing and wash it 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

Vapour/air-mixtures are explosive at intense warming Components of the product may be absorbed into the body by inhalation, ingestion and through the skin

# SECTION 3: Composition / information on ingredients

#### 3.1. Substances

Component	CAS-No	Concentration (%)
2-Ethylhexan-1-ol	104-76-7	> 99,5

# **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. 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**

cough, headache, weakness, dizziness, gastrointestinal discomfort, nausea, unconsciousness, shortness of breath.

## Special hazard

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. If ingested, irrigate the stomach using activated charcoal.

# SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

#### Suitable extinguishing media

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

Vapour/air-mixtures are explosive at intense warming

# 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



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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.

## **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

# 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/air-mixtures are explosive at intense warming.

#### **Technical measures/Storage conditions**

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Keep at temperatures between 0 and 49 °C (32 and 120 °F).

#### Suitable material

stainless steel

#### Unsuitable material

None known

# SECTION 8: Exposure controls / personal protection

# 8.1. Control parameters

## **Exposure limits United States of America**

No exposure limits established.

Note



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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 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 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.

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# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

liquid @ 20 °C (68 °F) **Appearance** 

Colour colourless Odour slight Odour threshold mqq 80,0

5,8 (0,9 g/l in water @ 20 °C (68 °F)) OECD 105\*\*\* На

Melting point/range -128,2 °F (-89 °C) (Pour point)

**DIN ISO 3016** Method

363,2 °F (184 °C) @ 1 atm (101,3 kPa) Boiling point/range

**OECD 103** Method

Flash point 170,6 °F (77 °C) @ 1 atm (101,3 kPa)\*\*\*

Method ISO 2719

**Evaporation rate** No data available

Flammability (solid, gas) Does not apply, the substance is a liquid

Lower explosion limit 0.79 Vol % **Upper explosion limit** 12.7 Vol %

Vapour pressure

@ °C Values [hPa] Values [kPa] Values [atm] @ °F Method 0,93 0.093 0,00091 20 68 **OECD 104** 3.8 0,38 0.003750 50 122 **OECD 104** 

Vapour density 4,5 (Air = 1) @ 20 °C (68 °F)

Relative density

Values @ °C @ °F Method 0,832 20 68 DIN 51757 **Solubility** 0,9 g/l @ 68 °F (20 °C), in water, OECD 105

2,9 (measured) OECD 117 log Pow 536 °F (280 °C) @ 1017 hPa\*\*\* **Autoignition temperature** 

DIN 51794 Method

**Decomposition temperature** No data available 9,845 mPa\*s @ 68 °F (20 °C) **Viscosity** 

DIN 51562, dynamic\*\*\* Method

#### 9.2. Other information

130.23 Molecular weight C8 H18 O Molecular formula

2,12 calculated\*\*\* loa Koc

pKa 15,75 @ 25 °C (77 °F) (calculated) **Dissociation constant** 

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

associated with oxidizing properties\*\*\*

**Refractive Index** 1,431 @ 68 °F (20 °C)

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

associated with explosive properties

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**Surface tension** 

47 mN/m (0,81 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

Hazardous polymerisation does not occur.

#### 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.

# 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

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

#### 2-Ethylhexan-1-ol, CAS: 104-76-7

Main symptoms

cough, headache, weakness, dizziness, gastrointestinal discomfort, nausea, unconsciousness, shortness of breath.

## Target Organ Systemic Toxicant - Single exposure

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

Acute toxicity				
2-Ethylhexan-1-ol (104-76-7	)			
Routes of Exposure	Endpoint	Values	Species	Method



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Oral	LD50	~2047 mg/kg	rat, male	OECD 401
Dermal	LD0	> 3000 mg/kg	rat, male/female	OECD 402
lada a ladina	1.050	0.00		OF OD 400

Inhalative > 0.89 - < 5.3 mg/lrat, male/female **OECD 403** LC50 (4h)

## 2-Ethylhexan-1-ol, CAS: 104-76-7

#### Assessment

The available data lead to the classification given in section 2

Irritation and corrosion					
2-Ethylhexan-1-ol (104-7	76-7)				
Target Organ Effects	Species	Result	Method		
Skin	rabbit	severe irritation	OECD 404	4h	
Eyes	rabbit	irritating	OECD 405		
Respiratory tract	human	irritating			

## 2-Ethylhexan-1-ol, CAS: 104-76-7

#### Assessment

The available data lead to the classification given in section 2

Sensitization				
2-Ethylhexan-1-ol (104-76-7				
Target Organ Effects	Species	Evaluation	Method	
Skin	Human experience	not sensitizing	Maximisation Test	

## 2-Ethylhexan-1-ol, CAS: 104-76-7

#### Assessment

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

Skin sensitization

For respiratory sensitization, no data are available

Subacute, subchronic	Subacute, subchronic and prolonged toxicity					
2-Ethylhexan-1-ol (104	-76-7)					
Type	Dose	Species	Method			
Subchronic toxicity	NOEL: 125 mg/kg/d (90d)	rat, male/female	OECD 408	Oral		
Subchronic toxicity	NOAEL: 250 mg/kg/d (90d)	rat, male/female	OECD 408	Oral		
Subchronic toxicity	NOEL: 125 mg/kg/d (90d)	mouse, male/female	OECD 408	Oral		
Subchronic toxicity	NOAEL: 250 mg/kg/d (90d)	mouse, male/female	OECD 408	Oral		
Subchronic toxicity	NOAEC: 120 ppm (90 d)	rat, male/female	OECD 413	Inhalation		

## 2-Ethylhexan-1-ol, CAS: 104-76-7

## Assessment

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



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Carcinogenicity, Mutage 2-Ethylhexan-1-ol (104					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella	negative	OECD 471	In vitro study
		typhimurium		(Ames)	
Mutagenicity		Escherichia coli	negative	OECD 472	In vitro study
Mutagenicity		CHO (Chinese	negative	OECD 473	In vitro study
		Hamster Ovary)		(Chromosomal	
		cells		Aberration)	
Mutagenicity		mouse lymphoma	negative	OECD 476	In vitro study
		cells		(Mammalian	
				Gene Mutation)	
Carcinogenicity	NOAEL 500	rat, male/female	negative	OECD 451, Oral	
	mg/kg/d				
Carcinogenicity	NOAEL 750	mouse	negative***	OECD 451, Oral	
	mg/kg/d	male/female***		0505 450	
Mutagenicity		CHO (Chinese	negative	OECD 476	In vitro study
		Hamster Ovary)		(Mammalian	
Mutaganiaitu		cells mouse***	negative	Gene Mutation) OECD 474***	in vivo
Mutagenicity Reproductive toxicity	NOAEL 10000	rat, parental***	negative	OECD 474 OECD 416	Fertility read
Reproductive toxicity	mg/kg/d	rai, pareniai		Oral***	across
Reproductive toxicity	NOAEL 3000	rat, parental***		OECD 416	Maternal toxicity
reproductive toxicity	mg/kg/d	lat, parentai		Oral***	read across
Reproductive toxicity	NOAEL 3000	rat***		OECD 416	Developmental
reproductive textory	mg/kg/d			Oral***	toxicity read
					across
Developmental Toxicity	NOAEL 191	mouse***	negative	OECD 414,	Maternal toxicity,
	mg/kg/d***			Oral***	Developmental
					toxicity,
					Teratogenicity***
Developmental	NOAEC: 850	rat***		OECD 414,	Maternal toxicity,
Toxicity***	mg/m³***			Inhalative***	Developmental
					toxicity,
<u> </u>	NOAEL O.C.			0505 ***	Teratogenicity***
Developmental	NOAEL 840	rat***		OECD 414,	Maternal
Toxicity***	mg/kg/d***	1444		Dermal***	toxicity***
Developmental	NOAEL 2520	rat***		OECD 414,	Developmental
Toxicity***	mg/kg/d***			Dermal***	toxicity,
					Teratogenicity***

# 2-Ethylhexan-1-ol, CAS: 104-76-7

## **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



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

Developmental toxicity

Reproductive toxicity

Carcinogenicity\*\*\*

## 2-Ethylhexan-1-ol, CAS: 104-76-7

#### **Aspiration toxicity**

no data available

#### Other adverse effects

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

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			
2-Ethylhexan-1-ol (104-76-7)			
Species	Exposure time	Dose	Method
Leuciscus idus (Golden orfe)	96h	LC50: 17,1 mg/l	84/449/EEC C.1
Pimephales promelas (fathead	96h	LC50: 28,2 mg/l	OECD 203
minnow)			
Daphnia magna (Water flea)	48h	EC50: 39 mg/l	84/449/EEC C.2
Desmodesmus subspicatus	72h	EC50: 11,5 mg/l (Biomass)	88/302/EEC C.3
Desmodesmus subspicatus	72h	EC50: 16,6 mg/l (Growth	88/302/EEC C.3
		rate)	
Activated sludge (domestic)	24h	NOEC: > 300 mg/l	ETAD Fermentation tube
		_	method

Long term toxicity				
2-Ethylhexan-1-ol (104	-76-7)			
Туре	Species	Dose	Method	
Aquatic toxicity	Scenedesmus subspicatus	EC10: 3,2 mg/l (72 h) Biomass***	88/302/EEC C.3	
Aquatic toxicity***	Scenedesmus subspicatus***	EC10: 5,3 mg/l (72 h) Growth rate***	88/302/EEC C.3***	

## 12.2. Persistence and degradability

## 2-Ethylhexan-1-ol, CAS: 104-76-7

Biodegradation

100 % (14 d), activated sludge, non-adapted, aerobic, OECD 301 C,

97 % (7 d), activated sludge, industrial, non-adapted, aerobic, OECD 302 B (Zahn-Wellens Test).\*\*\*



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Abiotic Degradation		
2-Ethylhexan-1-ol (104-76-7	7)	
Туре	Result	Method
Hydrolysis	No data available	
Photolysis	Rate constant: 1,13 x 10^(-11)	measured***
	cm^3/(molecule x s) Atmospheric	

lifetime: 24,6 h\*\*\*

# 12.3. Bioaccumulative potential

2-Ethylhexan-1-ol (104-76-7)				
Туре	Result	Method		
	2,9 @ 25 °C (77 °F)***	measured, OECD 117		
BCF	38	calculated		

# 12.4. Mobility in soil

2-Ethylhexan-1-ol (104-76-7)		
Туре	Result	Method
Adsorption/Desorption	Koc: 131,1 @ 20 °C	calculated
Surface tension	47 mN/m (0,81 g/l @ 20°C (68°F))	OECD 115
Distribution to environmental	no data available***	
compartments***		

# 12.5. Results of PBT and vPvB assessment

2-Ethylhexan-1-ol, CAS: 104-76-7

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

2-Ethylhexan-1-ol, CAS: 104-76-7

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.



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#### **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**

Section 14.1 - 14.6

D.O.T. (49CFR)

NA 1993 14.1. UN number

Combustible liquid, n.o.s. (2-Ethylhexanol) 14.2. UN proper shipping name

14.3. Transport hazard class(es) Ш 14.4. Packing group 14.5. Environmental hazards no

14.6. Special precautions for user

**Emergency Response Guide** 128

Remarks Only regulated if over 119 gallons

Not restricted ICAO-TI / IATA-DGR

**IMDG** Not restricted

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

Product name Octanol Ship type 2 Pollution category

# 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



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MA RTK List PA RTK List

#### **International Inventories**

#### 2-Ethylhexan-1-ol, CAS: 104-76-7

AICS (AU) DSL (CA)

IECSC (CN)

EC-No. 2032343 (EU) ENCS (2)-217 (JP)

ISHL (2)-217 (JP)

KECI KE-13766 (KR)

INSQ (MX) PICCS (PH)

TSCA (US)

NZIoC (NZ)

TCSI (TW)

# **SECTION 16: Other information**

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#### **Hazard Rating Systems**

#### **NFPA (National Fire Protection Association)**

Health Hazard 2 Fire Hazard 2 Reactivity

#### **HMIS (Hazardous Material Information System)**

Health Hazard Flammability 2 Physical Hazard 0

## 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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#### 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 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** 

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