

# SAFETY DATA SHEET



Di-(2-ethylhexyl) amine  
10190

Version / Revision 4  
Supersedes Version 3.00

Revision Date 30-Apr-2020  
Issuing date 15-May-2020

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

### 1.1. Product identifier

Identification of the  
substance/preparation

**Di-(2-ethylhexyl) amine**

CAS-No 106-20-7  
EC No. 203-372-4  
Registration number (REACH) 01-2119977118-28

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

Identified uses Intermediate  
Lubricants and lubricant additives Formulation  
Uses advised against None

### 1.3. Details of the supplier of the safety data sheet

Company/Undertaking **OQ Chemicals GmbH**  
Identification 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 +65 3158 1198 (available 24/7)  
000800 100 7479 (for domestic shipments only)

## 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)

Acute oral toxicity Category 4, H302  
Acute dermal toxicity Category 3, H311  
Acute inhalation toxicity Category 3, H331  
Skin corrosion/irritation Category 1B, H314  
Serious eye damage/eye irritation Category 1, H318  
Environmental hazard Aquatic Chronic 1; H410, M-Factor: 1 (self-classification)

#### Additional information

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

### 2.2. Label elements

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

## Hazard pictograms



## Signal word

**Danger**

## Hazard statements

H302: Harmful if swallowed.  
H311: Toxic in contact with skin.  
H331: Toxic if inhaled.  
H314: Causes severe skin burns and eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

## Precautionary statements

P260: Do not breathe gas/mist/vapours.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P321: Specific treatment: IF ON SKIN: Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step.  
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.  
P391: Collect spillage.  
P403 + P233: Store in a well ventilated place. Keep container tightly closed.

## 2.3. Other hazards

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

## PBT and vPvB assessment

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

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
Bis-(2-ethylhexyl)-amine	106-20-7	01-2119977118-28	Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 1;	> 99,0

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			H410 M-Factor: 1 (self-classification)	
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For full text of Hazard- and EU Hazard-statements see SECTION 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. Call a physician immediately. Symptoms of poisoning may develop many hours after exposure.

#### Eyes

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

#### Skin

Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

#### 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

shortness of breath, convulsions, cough, hypertensive effect, nausea, vomiting, circulatory collapse, discomfort.

#### Special hazard

Stomach perforation, Lung oedema.

### 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 as an alkaline substance (similar to ammonia). If ingested, irrigate the stomach. Treat skin and mucous membranes with antihistamine and corticoids. In case of lung irritation, first treatment with cortisone spray. Symptoms may be delayed. Later control for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), 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:

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carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)

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. Water run-off and vapor cloud may be corrosive. Water run-off can cause environmental damage. Keep people away from and upwind of fire. Do not allow run-off from fire fighting to enter drains or water courses.

## 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. 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

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. Do not use compressed air for filling, discharging or handling. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in

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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

strong acids  
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. Handle under nitrogen, protect from moisture. Keep at temperatures between -1 and 38 °C (30 and 100 °F).

### Temperature class

T3

## 7.3. Specific end use(s)

Intermediate  
Lubricants and lubricant additives Formulation

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits India

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.

#### 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.

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## 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.

## 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.

## 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.

<b>Suitable material</b>	Viton
<b>Evaluation</b>	according to EN 374: level 6
<b>Glove thickness</b>	approx 0,5 mm
<b>Break through time</b>	> 480 min
<b>Suitable material</b>	polyvinylchloride
<b>Evaluation</b>	Information derived from practical experience
<b>Glove thickness</b>	approx 0,8 mm

## 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

## Skin and body protection

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

## Environmental exposure controls

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. 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

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	amine-like
<b>Odour threshold</b>	No data available
<b>pH</b>	9,0 (0,01 g/l in water @ 25 °C (77 °F)) DIN 19268
<b>Melting point/range</b>	- 89 °C
<b>Boiling point/range</b>	277 °C @ 1013 hPa
<b>Flash point</b>	130 °C @ 1013 hPa
<b>Method</b>	DIN EN ISO 2719
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Does not apply, the substance is a liquid
<b>Lower explosion limit</b>	0,6 Vol %
<b>Upper explosion limit</b>	3,7 Vol %

## Vapour pressure

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Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
0,0023	0,0002	< 0,001	20	68	
0,037	0,0037	< 0,001	50	122	
<b>Vapour density</b>	No data available				
<b>Relative density</b>					
Values	@ °C	@ °F	Method		
0,8040	20	68	DIN 51757		
<b>Solubility</b>	14 mg/l @ 20 °C, in water, OECD 105				
<b>log Pow</b>	7,3 (measured), OECD 117				
<b>Autoignition temperature</b>	245 °C @ 1001 hPa				
<b>Method</b>	DIN 51794				
<b>Decomposition temperature</b>	No data available				
<b>Viscosity</b>	3,7 mPa*s @ 20 °C				
<b>Method</b>	ASTM D445, dynamic				
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties				
<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties				

## 9.2. Other information

<b>Molecular weight</b>	241,46
<b>Molecular formula</b>	C <sub>16</sub> H <sub>35</sub> N
<b>log Koc</b>	5,5 @ 23 °C OECD 121
<b>Dissociation constant</b>	pKa 10,59 @ 25 °C (77 °F) (calculated)
<b>Refractive index</b>	1,442 @ 20 °C
<b>Surface tension</b>	48,0 mN/m (0,0125 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

Vapour/air-mixtures are explosive at intense warming.

### 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 acids, oxidizing agents.

### 10.6. Hazardous decomposition products

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No decomposition if stored and applied as directed. If heated to thermal decomposition the following decomposition products may occur depending on the conditions. carbon monoxide (CO). nitrogen oxides (NOx). cyanides. nitric acid. nitriles.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

Acute toxicity				
Bis-(2-ethylhexyl)-amine (106-20-7)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	1008 mg/kg	rat, male/female	OECD 401
Dermal	LD50	958 mg/kg	rabbit	
Inhalative	LC50	0,91 mg/l (4h)	rat, male/female	aerosol OECD 403

#### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

##### Assessment

The available data lead to the classification given in section 2

Irritation and corrosion				
Bis-(2-ethylhexyl)-amine (106-20-7)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive		
Respiratory tract	rat	irritating	Inhalation Risk Test	
Respiratory tract	mouse	irritating	RD50	
Eyes	rabbit	corrosive		

#### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

##### Assessment

The available data lead to the classification given in section 2

#### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

##### Assessment

Skin sensitization was not tested due to the corrosive properties of the substance

For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity				
Bis-(2-ethylhexyl)-amine (106-20-7)				
Type	Dose	Species	Method	
Subacute toxicity	NOAEL: 75 mg/kg/d	rat, male/female	OECD 422	Oral

#### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

##### Assessment

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

STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity					
Bis-(2-ethylhexyl)-amine (106-20-7)					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study



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		Escherichia coli			
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 476 (Mammalian Gene Mutation) HPRT	In vitro study
Reproductive toxicity	NOEL 75 mg/kg/d	rat		OECD 422	
Developmental Toxicity	NOEL 75 mg/kg/d	rat		OECD 422	
Mutagenicity		V79 cells, Chinese hamster	negative	OECD 487 micronucleus test	In vitro study

## **Bis-(2-ethylhexyl)-amine, CAS: 106-20-7**

### **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  
No reprotoxic effects in the absence of maternal toxicity  
No cancer study was conducted

## **Bis-(2-ethylhexyl)-amine, CAS: 106-20-7**

### **Main symptoms**

shortness of breath, convulsions, cough, hypertensive effect, nausea, vomiting, circulatory collapse, discomfort.

### **Target Organ Systemic Toxicant - Single exposure**

no data available

### **Target Organ Systemic Toxicant - Repeated exposure**

no data available

### **Aspiration toxicity**

no data available

### **Other adverse effects**

Components of the product may be absorbed into the body 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:

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

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

<b>Acute aquatic toxicity</b>			
<b>Bis-(2-ethylhexyl)-amine (106-20-7)</b>			
Species	Exposure time	Dose	Method
Leuciscus idus (Golden orfe)	96h	LC50: > 1,5 - < 2,2 mg/l	DIN 38412, part 15
Daphnia magna (Water flea)	48h	EC50: 2,2 mg/l	79/831/EEC.C2
Desmodesmus subspicatus	72h	EC50: 1,55 mg/l (Growth rate)	OECD 201
Activated sludge (bacteriae)	3 h	EC50: 89 mg/l	OECD 209

### **Long term toxicity**

#### **Bis-(2-ethylhexyl)-amine (106-20-7)**

Type	Species	Dose	Method
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Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 0,069 mg/l (21d)	OECD 211	
Reproductive toxicity	Daphnia magna (Water flea)	LOEC: 0,133 mg/l/21d	OECD 211	
Reproductive toxicity	Earthworm	NOEC: 20 mg/l (56d)	OECD 222	
Aquatic toxicity	Desmodesmus subspicatus	NOEC: 0,14 mg/l (3d)	OECD 201	

## 12.2. Persistence and degradability

### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

#### Biodegradation

69 % (28 d), activated sludge (domestic), adapted, aerobic, OECD 301 B, Readily biodegradable, failing 10-d window.

#### Abiotic Degradation

##### Bis-(2-ethylhexyl)-amine (106-20-7)

Type	Result	Method
Hydrolysis	not expected	
Photolysis	Half-life (DT50): 3,67 h	SRC AOP v1.92

## 12.3. Bioaccumulative potential

##### Bis-(2-ethylhexyl)-amine (106-20-7)

Type	Result	Method
log Pow	7,3	measured, OECD 117
BCF	Significant bioaccumulation not to be expected	QSAR

## 12.4. Mobility in soil

##### Bis-(2-ethylhexyl)-amine (106-20-7)

Type	Result	Method
Surface tension	48,0 mN/m (0,0125 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	log Koc: 5,5 @ pH 7	OECD 121
Distribution to environmental compartments	Air: 0% Soil: 49,5% Water: 0% Sediment: 50,1% Suspended sediment: 0,3%	Calculation according Mackay, Level I

## 12.5. Results of PBT and vPvB assessment

### Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

#### 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

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Bis-(2-ethylhexyl)-amine, CAS: 106-20-7

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.

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

### ICAO-TI / IATA-DGR

14.1. UN number	UN 2922
14.2. UN proper shipping name	Corrosive liquid, toxic, n.o.s. (Di-(2-ethylhexyl) amine)
14.3. Transport hazard class(es)	8
Subsidiary Risk	6.1
14.4. Packing group	II
14.5. Environmental hazards	Fish and tree
14.6. Special precautions for user	no data available

### IMDG

14.1. UN number	UN 2922
14.2. UN proper shipping name	Corrosive liquid, toxic, n.o.s. (Di-(2-ethylhexyl) amine)
14.3. Transport hazard class(es)	8
Subsidiary Risk	6.1
14.4. Packing group	II
14.5. Environmental hazards	Fish and tree
Marking	yes
Marine pollutant	yes
14.6. Special precautions for user	F-A, S-B
EmS	not applicable
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	not applicable

## SECTION 15: Regulatory information

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

### Regulation 1272/2008, Annex VI

not listed

### International Inventories

#### **Bis-(2-ethylhexyl)-amine, CAS: 106-20-7**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2033724 (EU)  
ENCS (2)-138 (JP)  
ENCS (2)-176 (JP)  
ISHL (2)-138 (JP)  
ISHL (2)-176 (JP)  
ISHL 2-(10)-66 (JP)  
KECI 97-1-120 (KR)  
KECI KE-05-0210 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

### National regulatory information India

#### **Hazardous Chemicals, Schedule 2: Threshold Quantities at an Isolated Storage**

not listed

#### **Hazardous Chemicals, Schedule 3: Threshold Quantities in an Industrial Installation**

not listed

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

## **SECTION 16: Other information**

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

H302: Harmful if swallowed.  
H311: Toxic in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H331: Toxic if inhaled.  
H410: Very 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](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

### **Training advice**

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

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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](http://www.chemicals.oq.com)).

## 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**