

# SAFETY DATA SHEET



**Isobutyl acetate**  
**10260**

**Version / Revision**  
**Supersedes Version**

4.01  
4.00\*\*\*

**Revision Date**  
**Issuing date**

02-Feb-2022  
02-Feb-2022

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

**Isobutyl acetate**

CAS-No 110-19-0

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

Use of the Substance /  
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

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).

Target Organ Systemic Toxicant - Single exposure Category 3, H336  
Flammable liquid Category 2, H225  
Environmental hazard Aquatic Acute 3; H402

OSHA Specified Hazards Not applicable.

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## 2.2. Label elements

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

### Hazard symbol(s)



### Signal word

**Danger**

### Hazard statements

H225: Highly flammable liquid and vapor.  
H336: May cause drowsiness or dizziness.  
H402: Harmful to aquatic life

### Precautionary statements

#### Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242: Use non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P261: Avoid breathing gas/mist/vapours.  
P273: Avoid release to the environment.  
P271: Use only outdoors or in a well ventilated area.  
P280: Wear protective gloves/eye protection/face protection.\*\*\*

#### Response

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTRE/doctor if you feel unwell.

#### Storage

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

#### Disposal

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

## 2.3. Other hazards

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback  
Vapours may form explosive mixture with air

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Components of the product may be absorbed into the body by inhalation  
Repeated exposure may cause skin dryness or cracking

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	Concentration (%)
Isobutyl acetate	110-19-0	> 99,0

## 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, nausea, vomiting, headache, unconsciousness, shortness of breath, dizziness, narcosis.

#### Special hazard

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

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

#### General advice

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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## **Suitable extinguishing media**

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:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

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

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

Vapours may form explosive mixture with air

## **5.3. Advice for firefighters**

### **Special protective equipment for firefighters**

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

### **Precautions for firefighting**

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

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

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

For emergency responders: Personal protection see section 8.

### **6.2. Environmental precautions**

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

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for containment**

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

#### **Methods for cleaning up**

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

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## 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 acids and strong bases  
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 is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

#### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

#### Suitable material

mild steel, stainless steel, aluminium

#### Unsuitable material

Attacks some forms of plastic and rubber, copper

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits United States of America

##### US ACGIH

Component	TWA	TWA	STEL	STEL
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	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )	(ppm)
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## US OSHA Z-1

Component	Ceiling (mg/m <sup>3</sup> )	Ceiling (ppm)	PEL (mg/m <sup>3</sup> )	PEL (ppm)	Skin Designation
Isobutyl acetate CAS: 110-19-0			700	150	

### Note

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

## 8.2. Exposure controls

### Appropriate Engineering controls

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

### Individual protection measures, such as personal protective equipment

#### General industrial hygiene practice

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

#### Hygiene measures

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

#### Eye protection

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

#### Hand protection

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

**Suitable material** butyl-rubber  
**Evaluation** according to EN 374: level 3  
**Glove thickness** approx 0,3 mm  
**Break through time** approx 60 min

**Suitable material** polyvinylchloride / nitrile rubber  
**Evaluation** according to EN 374: level 2  
**Glove thickness** approx 0,9 mm  
**Break through time** approx 30 min

### Skin and body protection

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

## Respiratory protection

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

## Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless
Odour	fruity
Odour threshold	19,3 mg/m <sup>3</sup>
pH	6,7 (~5 g/l in water @ 20 °C (68 °F))
Melting point/range	< -130 °F (< -90 °C) (Pour point)
Method	DIN ISO 3016
Boiling point/range	242,6 °F (117 °C) @ 1 atm (101,3 kPa)
Method	OECD 103
Flash point	71,6 °F (22 °C) @ 1 atm (101,3 kPa)***
Method	ISO 2719
Evaporation rate	1,5 (n-Butyl acetate = 1)
Flammability (solid, gas)	Does not apply, the substance is a liquid
Lower explosion limit	1,3 Vol %
Upper explosion limit	10,5 Vol %

#### Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
21	2,1	0,021	20	68	DIN EN 13016-2***
89	8,9	0,088	50	122	DIN EN 13016-2***

Vapour density 4,0 (Air = 1) @ 20 °C (68 °F)

#### Relative density

Values	@ °C	@ °F	Method
0,871	20	68	DIN 51757

Solubility 5,6 g/l @ 20 °C (68 °F), in water, OECD 105

log Pow 2,3 @ 25 °C (77 °F) measured OECD 117\*\*\*

Autoignition temperature 806 °F (430 °C) @ 1019 hPa\*\*\*

Method DIN 51794

Decomposition temperature No data available

Viscosity 0,70 mPa\*s @ 68 °F (20 °C)

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Method dynamic, ASTM D445

## 9.2. Other information

<b>Molecular weight</b>	116,16
<b>Molecular formula</b>	C6 H12 O2
<b>log Koc</b>	1,19 calculated***
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
<b>Refractive Index</b>	1,390 @ 68 °F (20 °C)
<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
<b>Surface tension</b>	62,5 mN/m (1 g/l @ 20°C (68°F)), OECD 115

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

strong acids and strong bases, 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

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

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**Main symptoms**

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cough, shortness of breath, dizziness, headache, nausea, narcosis, vomiting, unconsciousness.

### Target Organ Systemic Toxicant - Single exposure

The available data lead to the classification given in section 2

### Target Organ Systemic Toxicant - Repeated exposure

Repeated exposure may cause skin dryness or cracking

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

STOT RE

<b>Acute toxicity</b>				
<b>Isobutyl acetate (110-19-0)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	13413 mg/kg	rat	OECD 401
Dermal	LD50	> 17400 mg/kg	rabbit male***	OECD 402
Inhalative	LC50	30 mg/l	rat, female***	OECD 403

### Isobutyl acetate, CAS: 110-19-0

#### Assessment

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

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

<b>Irritation and corrosion</b>				
<b>Isobutyl acetate (110-19-0)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	No skin irritation	OECD 404	read across
Eyes	rabbit	No eye irritation	OECD 405	read across
Respiratory tract	human	Low irritating potential		read across***

### Isobutyl acetate, CAS: 110-19-0

#### Assessment

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

skin irritation/corrosion

eye irritation/corrosion

respiratory irritation

<b>Sensitization</b>				
<b>Isobutyl acetate (110-19-0)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	

### Isobutyl acetate, CAS: 110-19-0

#### Assessment

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

Skin sensitization

For respiratory sensitization, no data are available

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<b>Subacute, subchronic and prolonged toxicity</b>					
<b>Isobutyl acetate (110-19-0)</b>					
Type	Dose	Species	Method		
Subchronic toxicity	NOAEL: 495 mg/kg/d	rat, male/female	OECD 408	read across	
Subchronic toxicity	NOAEC: 500 ppm/d (13 weeks)***	rat, male/female	EPA OTS 798.2450 Inhalation***	read across	

## **Isobutyl acetate, CAS: 110-19-0**

### **Assessment**

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

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>					
<b>Isobutyl acetate (110-19-0)</b>					
Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study
Mutagenicity		V79 cells, Chinese hamster	negative (with metabolic activation)	OECD 473 (Chromosomal Aberration)	In vitro study
Mutagenicity		mouse	negative	OECD 474	read across In vitro study micronucleus test
Developmental Toxicity***	NOAEC: 15,7 mg/l	rat		OECD 414, Inhalative	read across Maternal toxicity, Developmental toxicity, Teratogenicity Embryotoxicity***
Developmental Toxicity***	NOAEC: 3,9 mg/l	rabbit	Maternal toxicity	OECD 414, Inhalative	read across
Developmental Toxicity***	NOAEC: 15,7 mg/l	rabbit	Fetal toxicity, Embryotoxicity Teratogenicity***	OECD 414, Inhalative	read across
Reproductive toxicity	NOAEC: 3198 ppm***	rat, parental rat, 1. Generation, male/female rat 2. Generation, male/female***		EPA OPPTS 870.3800	read across
Reproductive toxicity***		V79 cells, Chinese hamster	negative (with metabolic activation)	OECD 476 (Mammalian Gene Mutation) HPRT	read across In vitro study

## **Isobutyl acetate, CAS: 110-19-0**

### **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

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## Evaluation

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

Mutagenicity

Developmental toxicity

Reproductive toxicity

No cancer study was conducted\*\*\*

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### Other adverse effects

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

### 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>Isobutyl acetate (110-19-0)</b>			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 25 mg/l	OECD 202
Oryzias latipes (Medaka)	96h	LC50: 17 mg/l	OECD 203
Pseudokirchneriella subcapitata	72h	EC50: 397 mg/l (Growth rate)	OECD 201
Pseudomonas putida	16 h	TTC: 200 mg/l	Cell multiplication inhibition test

<b>Long term toxicity</b>				
<b>Isobutyl acetate (110-19-0)</b>				
Type	Species	Dose	Method	
Reproductive toxicity	Daphnia magna (Water flea)	EC50: 34 mg/l/21d	OECD 211	
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: 23 mg/l (21d)	OECD 211	
Aquatic toxicity	Pseudokirchneriella subcapitata	NOEC: 196 mg/l (3d)	OECD 201	

### 12.2. Persistence and degradability

#### Isobutyl acetate, CAS: 110-19-0

##### Biodegradation

81 % (20 d), Readily biodegradable, Sewage, domestic, non-adapted, aerobic, OECD 301 D.

<b>Abiotic Degradation</b>		
<b>Isobutyl acetate (110-19-0)</b>		
Type	Result	Method

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Hydrolysis***	t1/2 (pH 7): 3,33 yr @ 25°C***	calculated***
Photolysis***	Half-life (DT50): 3,49 days***	calculated***

## 12.3. Bioaccumulative potential

<b>Isobutyl acetate (110-19-0)</b>		
Type	Result	Method
log Pow	2,3 @ 25 °C (77 °F)***	measured, OECD 117
BCF	15,3***	calculated***

## 12.4. Mobility in soil

<b>Isobutyl acetate (110-19-0)</b>		
Type	Result	Method
Surface tension	62,5 mN/m (1 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	log Koc: 1,19	calculated
Distribution to environmental compartments	Air: 13% Soil: 48% Water: 38,8% Sediment: 0,11%	calculated Fugacity Model Level III

## 12.5. Results of PBT and vPvB assessment

### **Isobutyl acetate, CAS: 110-19-0**

#### **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

### **Isobutyl acetate, CAS: 110-19-0**

No data available

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Product Information**

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

#### **Uncleaned empty packaging**

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

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## SECTION 14: Transport information

### D.O.T. (49CFR)

14.1. UN number	UN 1213
14.2. UN proper shipping name	Isobutyl acetate
14.3. Transport hazard class(es)	3
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
Reportable Quantity (RQ)	5000 lb/ 2270 kg (Butyl acetate)
Emergency Response Guide	129

### ICAO-TI / IATA-DGR

14.1. UN number	UN 1213
14.2. UN proper shipping name	Isobutyl acetate
14.3. Transport hazard class(es)	3
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

### IMDG

14.1. UN number	UN 1213
14.2. UN proper shipping name	Isobutyl acetate
14.3. Transport hazard class(es)	3
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
EmS	F-E, S-D

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

Product name	Butyl acetate
Ship type	3
Pollution category	Y

## SECTION 15: Regulatory information

### Federal and State Regulations

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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

## **Isobutyl acetate, CAS: 110-19-0**

CERCLA Hazardous Substance  
CERCLA RQ 5000 LBS

## **State Regulations**

### **Isobutyl acetate, CAS: 110-19-0**

CA Hazardous Substances (Director's) List  
IL Chemical Safety Act  
MA Hazardous Substances List  
MA RTK List  
MN Hazardous Substances List  
NY RTK List  
PA RTK List  
RI RTK List

## **International Inventories**

### **Isobutyl acetate, CAS: 110-19-0**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2037451 (EU)  
ENCS (2)-731 (JP)  
ISHL (2)-731 (JP)  
KECI KE-00055 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

## **SECTION 16: Other information**

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**Issuing date** 02-Feb-2022

## **Hazard Rating Systems**

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

Health Hazard 1  
Fire Hazard 3

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Reactivity 0

**HMIS (Hazardous Material Information System)**

Health Hazard 1

Flammability 3

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

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

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**End of Safety Data Sheet**