

# SAFETY DATA SHEET

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



Isovaleraldehyde  
10150

Version / Revision  
Supersedes Version

7  
6.00\*\*\*

Revision Date  
Issuing date

28-Feb-2023  
28-Feb-2023

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

### 1.1. Product identifier

Identification of the  
substance/preparation

**Isovaleraldehyde**

Chemical Name 3-Methylbutanal  
CAS-No 590-86-3  
EC No. 209-691-5

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

Identified uses Transported isolated intermediate (1907/2006)  
Other uses  
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 +44 (0) 1235 239 670 (UK)  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flammable liquid Category 2, H225  
Serious eye damage/eye irritation Category 2, H319  
Skin sensitization Category 1, H317  
Target Organ Systemic Toxicant - Single exposure Category 3, H335  
Environmental hazard Aquatic Chronic 2; H411

#### Additional information

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

### 2.2. Label elements

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

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## Hazard pictograms



## Signal word

**Danger**

## Hazard statements

H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H335: May cause respiratory irritation.  
H411: Toxic to aquatic life with long lasting effects.

## Precautionary statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P261: Avoid breathing gas/mist/vapours.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P363: Wash contaminated clothing before reuse.  
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.  
P312: Call a POISON CENTRE/doctor if you feel unwell.  
P391: Collect spillage.  
P403 + P235: Store in a well ventilated place. Keep cool.

## 2.3. Other hazards

Vapours may form explosive mixture with air

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

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

**PBT and vPvB assessment** Not required

**Endocrine disrupting assessments** The substance is not listed on the candidate list according to Art. 59(1), REACH. The substance was not assessed as having endocrine disrupting properties according to regulation 2017/2100/EU or 2018/605/EU.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
Isovaleraldehyde	590-86-3	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Sens. 1; H317	> 99,0

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		STOT SE 3; H335 Aquatic Chronic 2; H411	
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## Remarks

3-Methylbutanal.

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. 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, vomiting, headache, nausea.

#### Special hazard

Lung oedema, Lung irritation.

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

#### General advice

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (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

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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

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

## SECTION 6: Accidental release measures

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

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

For emergency responders: Personal protection see section 8.

### 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant). Water runoff can cause environmental damage.

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

#### Methods for containment

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

#### Methods for cleaning up

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

### 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system. Do not use compressed air for filling, discharging or handling.

#### Hygiene measures

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

#### Advice on the protection of the environment

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See Section 8: Environmental exposure controls.

## Incompatible products

acids and bases  
amines  
oxidizing agents

## 7.2. Conditions for safe storage, including any incompatibilities

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air.

### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under nitrogen, protect from moisture. Store at temperatures not exceeding 38 °C/ 100 °F.

### Suitable material

stainless steel

### Unsuitable material

mild steel

### Temperature class

T3

## 7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)  
Other uses

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits European Union

No exposure limits established

#### Exposure limits UK

No exposure limits established.

#### DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.

### 8.2. Exposure controls

#### Special adaptations (REACH)

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

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## **Appropriate Engineering controls**

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

## **Personal protective equipment**

### **General industrial hygiene practice**

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

### **Hygiene measures**

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

### **Eye protection**

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

Equipment should conform to EN 166

### **Hand protection**

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

<b>Suitable material</b>	butyl-rubber
<b>Evaluation</b>	according to EN 374: level 3
<b>Glove thickness</b>	approx 0.3 mm
<b>Break through time</b>	approx 60 min
<b>Suitable material</b>	polyvinylchloride
<b>Evaluation</b>	Information derived from practical experience
<b>Glove thickness</b>	approx 0.8 mm

### **Skin and body protection**

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

### **Respiratory protection**

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

### **Environmental exposure controls**

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emission 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.

### **Additional advice**

Further details on substance data can be found in the registration dossier under the following link:  
<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## **SECTION 9: Physical and chemical properties**

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

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<b>Physical state</b>	liquid				
<b>Colour</b>	colourless				
<b>Odour</b>	strong				
<b>Odour threshold</b>	0,1 - 2 ppb				
<b>Melting point/freezing point</b>	< -90 °C (Pour point)				
<b>Method</b>	DIN ISO 3016				
<b>Boiling point or initial boiling point and boiling range</b>	92 °C @ 1013 hPa				
<b>Method</b>	OECD 103				
<b>Flammability</b>	Ignitable				
<b>Lower explosion limit</b>	No data available				
<b>Upper explosion limit</b>	No data available				
<b>Flash point</b>	0,5 °C @ 1013 hPa				
<b>Method</b>	EU A.9				
<b>Autoignition temperature</b>	210 °C @ 1020 hPa				
<b>Method</b>	DIN 51794				
<b>Decomposition temperature</b>	No data available				
<b>pH</b>	3,1 (15 g/l in water @ 20 °C (68 °F))				
<b>Kinematic Viscosity</b>	0,69 mm <sup>2</sup> /s @ 20 °C				
<b>Method</b>	OECD 114				
<b>Solubility</b>	15 g/l @ 20 °C, in water, OECD 105				
<b>Partition coefficient n-octanol/water (log value)</b>	1,5 @ 25 °C (77 °F) OECD 117				
<b>Vapour pressure</b>					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
75	7,5	0,074	20	68	DIN EN 13016-2
255	25,5	0,252	50	122	DIN EN 13016-2
<b>Density and/or relative density</b>					
Values	@ °C	@ °F	Method		
0,797	20	68	DIN 51757		
<b>Relative vapour density</b>	2,96 (Air = 1) @ 20 °C (68 °F)				
<b>Particle characteristics</b>	not applicable				

## 9.2. Other information

<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
<b>Molecular weight</b>	86,13
<b>Molecular formula</b>	C <sub>5</sub> H <sub>10</sub> O
<b>Refractive index</b>	1,387 @ 20 °C
<b>Surface tension</b>	46,1 mN/m (1 g/l @ 20°C (68°F)), OECD 115
<b>Evaporation rate</b>	No data available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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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

bases, amines, acids, oxidizing agents.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

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

Acute toxicity				
Isovaleraldehyde (590-86-3)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	~ 5740 mg/kg	rat, male/female	OECD 401
Dermal	LD50	2534 mg/kg	rabbit male	OECD 402
Inhalative	LC50	42,7 mg/l (4h)	rat	OECD 403

#### Isovaleraldehyde, CAS: 590-86-3

##### Assessment

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

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

Irritation and corrosion				
Isovaleraldehyde (590-86-3)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	Mild skin irritation	OECD 404	4h in vivo
Eyes	rabbit	irritating		in vivo
Respiratory tract	mouse	RD50: 757-1008 ppm		10 min in vivo

#### Isovaleraldehyde, CAS: 590-86-3

##### Assessment

The available data lead to the classification given in section 2

Sensitization				
Isovaleraldehyde (590-86-3)				
Target Organ Effects	Species	Evaluation	Method	

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Skin	mouse guinea pig	sensitizing	Weight of evidence	read across
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## **Isovaleraldehyde, CAS: 590-86-3**

### **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**

#### **Isovaleraldehyde (590-86-3)**

Type	Dose	Species	Method	
no data available				

### **Carcinogenicity, Mutagenicity, Reproductive toxicity**

#### **Isovaleraldehyde (590-86-3)**

Type	Dose	Species	Evaluation	Method	
Mutagenicity		human lymphocytes	positive (without metabolic activation)	Similar to: OECD 479 (SCE)	In vitro study
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study read across
Mutagenicity		mouse	negative	OECD 474 Chromosomal Aberration	in vivo
Carcinogenicity	LOAEC: 500 ppm	rat, male/female	negative	OECD 451, Inhalative	read across
Carcinogenicity	LOAEC: 500 ppm	mouse male/female	negative	OECD 451, Inhalative	read across
Reproductive toxicity	No data available				

## **Isovaleraldehyde, CAS: 590-86-3**

### **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**

Did not show carcinogenic or mutagenic effects in animal experiments

## **Isovaleraldehyde, CAS: 590-86-3**

### **Main symptoms**

shortness of breath, vomiting, nausea, headache.

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

The available data lead to the classification given in section 2

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

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

STOT RE

### **Aspiration toxicity**

According to experience not expected

## **11.2. Information on other hazards**

### **Endocrine disrupting properties**

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

## **Isovaleraldehyde, CAS: 590-86-3**

### **Other adverse effects**

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

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## 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>Isovaleraldehyde (590-86-3)</b>			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 177 mg/l	84/449/EEC C.2
Pimephales promelas (fathead minnow)	96h	LC50: 3,25 mg/l	OECD 203
Desmodesmus subspicatus	72h	EC50: 80 mg/l (Biomass)	DIN 38412, part 9
Desmodesmus subspicatus	72h	EC50: 112,78 mg/l (Growth rate)	DIN 38412, part 9

<b>Long term toxicity</b>				
<b>Isovaleraldehyde (590-86-3)</b>				
Type	Species	Dose	Method	
Aquatic toxicity	Desmodesmus subspicatus	EC10: 32.62 mg/l (72 h) Biomass	DIN 38412 / part 9	
Aquatic toxicity	Desmodesmus subspicatus	EC10: 71,89 mg/l (72 h) Growth inhibition	DIN 38412 / part 9	

### 12.2. Persistence and degradability

#### Isovaleraldehyde, CAS: 590-86-3

##### Biodegradation

50 % (28 d), Sewage, aerobic, OECD 301 D.

<b>Abiotic Degradation</b>			
<b>Isovaleraldehyde (590-86-3)</b>			
Type	Result	Method	
Hydrolysis	No data available		
Photolysis	No data available		

### 12.3. Bioaccumulative potential

<b>Isovaleraldehyde (590-86-3)</b>		
Type	Result	Method
log Pow	1,5 @ 25 °C (77 °F)	OECD 117
BCF	No data available	

### 12.4. Mobility in soil

<b>Isovaleraldehyde (590-86-3)</b>		
Type	Result	Method

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Surface tension	46,1 mN/m (1 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	no data available	
Distribution to environmental compartments	no data available	

## 12.5. Results of PBT and vPvB assessment

Isovaleraldehyde, CAS: 590-86-3

**PBT and vPvB assessment**

Not required

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

Isovaleraldehyde, CAS: 590-86-3

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

### ADR/RID

<b>14.1. UN number or ID number</b>	UN 2058
<b>14.2. UN proper shipping name</b>	Valeraldehyde
<b>14.3. Transport hazard class(es)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	*** Fish and tree***
<b>14.6. Special precautions for user</b>	
ADR Tunnel restriction code	(D/E)
Classification Code	F1
Hazard Number	33

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## ADN

ADN Container

**14.1. UN number or ID number**  
**14.2. UN proper shipping name**  
**14.3. Transport hazard class(es)**  
**14.4. Packing group**  
**14.5. Environmental hazards**  
**14.6. Special precautions for user**  
Classification Code  
Hazard Number

UN 2058  
Valeraldehyde  
3  
II  
\*\*\* Fish and tree\*\*\*  
  
F1  
33

## ADN

ADN Tanker  
forbidden

## ICAO-TI / IATA-DGR

**14.1. UN number or ID number**  
**14.2. UN proper shipping name**  
**14.3. Transport hazard class(es)**  
**14.4. Packing group**  
**14.5. Environmental hazards**  
**14.6. Special precautions for user**

UN 2058  
Valeraldehyde  
3  
II  
\*\*\* Fish and tree\*\*\*  
no data available

## IMDG

**14.1. UN number or ID number**  
**14.2. UN proper shipping name**  
**14.3. Transport hazard class(es)**  
**14.4. Packing group**  
**14.5. Environmental hazards**  
Marking  
Marine pollutant  
**14.6. Special precautions for user**  
EmS  
**14.7. Maritime transport in bulk according to IMO instruments**  
Product name  
Ship type  
Pollution category  
Hazard class

UN 2058  
Valeraldehyde  
3  
II  
\*\*\*  
Fish and tree\*\*\*  
yes\*\*\*  
  
F-E, S-D  
  
Valeraldehyde  
3  
Y  
S/P

## **SECTION 15: Regulatory information**

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

### Regulation 1272/2008, Annex VI

not listed

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## DI 2012/18/EU (Seveso III)

### Category

Annex I, part 1:  
P5a - c; depending on conditions  
E2

## DI 1999/13/EC (VOC Guideline)

Component	Status
Isovaleraldehyde CAS: 590-86-3	regulated

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

Component	Status
Isovaleraldehyde CAS: 590-86-3	The substance is/will be pre-registered

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

## International Inventories

### **Isovaleraldehyde, CAS: 590-86-3**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2096915 (EU)  
ENCS (2)-494 (JP)  
ISHL (2)-494 (JP)  
KECI KE-23536 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

## National regulatory information Great Britain

### **Releases to air (Pollution Inventory Substances)**

not subject

### **Releases to water (Pollution Inventory Substances)**

not subject

### **Releases to sewer (Pollution Inventory Substances)**

not subject

For details and further information please refer to the original regulation

## **15.2. Chemical safety assessment**

The Chemical Safety Report (CSR) is not required.

## **SECTION 16: Other information**

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

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

## Abbreviations

A table of terms and abbreviations can be found under the following link:

[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

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

## Disclaimer

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

**End of Safety Data Sheet**