

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2  
Supersedes Version 1.01

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

# Zorgol 48

**Chemical Name** Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (EINECS 920-427-4)

**CAS-No** -

**EC No.** 920-427-4

**Registration number (REACH)** 01-2119615428-38

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

**Identified uses** Transported isolated intermediate (1907/2006)

**Uses advised against** None

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

**Company/Undertaking Identification** **OQ Chemicals GmbH**  
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 3, H226  
Skin corrosion/irritation Category 2, H315  
Serious eye damage/eye irritation Category 2, H319  
Skin sensitization Category 1, H317  
Environmental hazard Aquatic Chronic 2; H411

#### Additional information

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

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

## 2.2. Label elements

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

### Hazard pictograms



### Signal word

### Warning

### Hazard statements

H226: Flammable liquid and vapour.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
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.  
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.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P313: Get medical advice/attention.  
P403 + P235: Store in a well ventilated place. Keep cool.

## 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

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

| Component  | CAS-No | REACH-No         | 1272/2008/EC  | Concentration (%) |
|--|--------|------------------|---|-------------------|
| Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification | -      | 01-2119615428-38 | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Aquatic Chronic 2;<br>H411 | 100               |

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

## SECTION 4: First aid measures



Zorgol 48  
10240

Version / Revision 2

## 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.

### 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

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.



Zorgol 48  
10240

Version / Revision 2

## Precautions for firefighting

Cool containers / tanks with water spray. Water run-off can cause environmental damage. 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). 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.

#### Hygiene measures

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

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

acids and bases  
amines  
oxidizing agents

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



Zorgol 48  
10240

Version / Revision 2

### 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.

### Temperature class

T3

### 7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)

## 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

#### 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

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

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>  | nitrile rubber               |
| <b>Evaluation</b>         | according to EN 374: level 4 |
| <b>Glove thickness</b>    | approx 0,55 mm               |
| <b>Break through time</b> | approx 80 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 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.

## 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

|                                  |   |
|----------------------------------|---|
| <b>Appearance</b>                | liquid                                    |
| <b>Colour</b>                    | light yellow                              |
| <b>Odour</b>                     | strong                                    |
| <b>Odour threshold</b>           | No data available                         |
| <b>pH</b>                        | No data available                         |
| <b>Melting point/range</b>       | < -90 °C                                  |
| <b>Method</b>                    | DIN ISO 3016                              |
| <b>Boiling point/range</b>       | 92 - 250 °C @ 1013 hPa                    |
| <b>Method</b>                    | OECD 103                                  |
| <b>Flash point</b>               | 34,5 °C @ 1013 hPa                        |
| <b>Method</b>                    | EU A.9                                    |
| <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>     | No data available                         |
| <b>Upper explosion limit</b>     | No data available                         |

## Vapour pressure

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

| Values [hPa]                     | Values [kPa]  | Values [atm] | @ °C      | @ °F | Method         |
|----------------------------------|---|--------------|-----------|------|----------------|
| 14                               | 1,4   | 0,014        | 20        | 68   | DIN EN 13016-2 |
| <b>Vapour density</b>            | No data available   |              |           |      |                |
| <b>Relative density</b>          | No data available   |              |           |      |                |
| Values                           | @ °C  | @ °F         | Method    |      |                |
| 0,8985                           | 20  | 68           | DIN 51757 |      |                |
| <b>Solubility</b>                | No data available   |              |           |      |                |
| <b>log Pow</b>                   | < 7,3 (measured), OECD 117  |              |           |      |                |
| <b>Autoignition temperature</b>  | 225 °C @ 1004 hPa   |              |           |      |                |
| <b>Method</b>                    | EU A.15   |              |           |      |                |
| <b>Decomposition temperature</b> | No data available   |              |           |      |                |
| <b>Viscosity</b>                 | 5,337 mPa*s @ 20 °C   |              |           |      |                |
| <b>Method</b>                    | ASTM D445, dynamic  |              |           |      |                |
| <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 |              |           |      |                |

## 9.2. Other information

**Surface tension** 45,6 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

### 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 toxicological effects

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

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

| <b>Acute toxicity</b>   |          |              |             |          |
|---|----------|--------------|-------------|----------|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |          |              |             |          |
| Routes of Exposure  | Endpoint | Values       | Species     | Method   |
| Oral  | LD50     | > 2000 mg/kg | rat, female | OECD 423 |

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **Assessment**

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

Acute oral toxicity

For acute inhalation toxicity, no data are available

For acute dermal toxicity, no data are available

| <b>Irritation and corrosion</b>   |         |            |        |             |
|---|---------|------------|--------|-------------|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |         |            |        |             |
| Target Organ Effects  | Species | Result     | Method |             |
| Skin  | rabbit  | irritating |        | read across |
| Eyes  | rabbit  | irritating |        | read across |

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **Assessment**

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

| <b>Sensitization</b>  |         |             |          |  |
|---|---------|-------------|----------|--|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |         |             |          |  |
| Target Organ Effects  | Species | Evaluation  | Method   |  |
| Skin  | mouse   | sensitizing | OECD 429 |  |

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **Assessment**

The available data lead to a classification as skin sensitizer (see section 2)

For respiratory sensitization, no data are available

| <b>Subacute, subchronic and prolonged toxicity</b>  |                   |         |        |  |
|---|-------------------|---------|--------|--|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |                   |         |        |  |
| Type  | Dose              | Species | Method |  |
| Subacute toxicity   | no data available |         |        |  |
| Subchronic toxicity   | no data available |         |        |  |
| Chronic toxicity  | no data available |         |        |  |

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **Assessment**

Due to lack of data, a classification is not possible for:

Repeated dose toxicity (subacute, subchronic, chronic)



# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

| <b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>   |                   |                        |            |                 |                |
|---|-------------------|------------------------|------------|-----------------|----------------|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |                   |                        |            |                 |                |
| Type  | Dose              | Species                | Evaluation | Method          |                |
| Mutagenicity  |                   | Salmonella typhimurium | negative   | OECD 471 (Ames) | In vitro study |
| Carcinogenicity   | No data available |                        |            |                 |                |
| Reproductive toxicity   | No data available |                        |            |                 |                |
| Developmental Toxicity  | No data available |                        |            |                 |                |

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **CMR Classification**

The available data on CMR properties do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests did not show mutagenic effects

## **Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### **Main symptoms**

shortness of breath.

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

Due to lack of data, a classification is not possible for:

STOT SE

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

Due to lack of data, a classification is not possible for:

STOT RE

### **Aspiration toxicity**

no data available

### **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>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |               |                              |          |
| Species   | Exposure time | Dose                         | Method   |
| Daphnia magna (Water flea)  | 48h           | EC50: 74 mg/l                | OECD 202 |
| Desmodesmus subspicatus   | 72h           | EC50: 7,6 mg/l (Growth rate) | OECD 201 |

| <b>Long term toxicity</b>   |                         |                     |                      |
|---|-------------------------|---------------------|----------------------|
| <b>Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)</b> |                         |                     |                      |
| Type  | Species                 | Dose                | Method               |
| Aquatic toxicity  | Desmodesmus subspicatus | NOEC: 0,8 mg/l (3d) | OECD 201 Growth rate |

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

## 12.2. Persistence and degradability

**Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### Biodegradation

50 - 55 % (16 d), OECD 310, activated sludge (domestic), non-adapted, aerobic.

### Abiotic Degradation

**Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)**

| Type       | Result            | Method |
|------------|-------------------|--------|
| Hydrolysis | No data available |        |
| Photolysis | No data available |        |

## 12.3. Bioaccumulative potential

**Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)**

| Type    | Result            | Method   |
|---------|-------------------|----------|
| log Pow | <7,3              | measured |
| BCF     | No data available |          |

## 12.4. Mobility in soil

**Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification (-)**

| Type                                       | Result                          | Method |
|--|---------------------------------|--------|
| Surface tension                            | 45,6 mN/m (1 g/l @ 20°C (68°F)) |        |
| Adsorption/Desorption                      | no data available               |        |
| Distribution to environmental compartments | no data available               |        |

## 12.5. Results of PBT and vPvB assessment

**Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -**

### PBT and vPvB assessment

Not required

## 12.6. Other adverse effects

### Note

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

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</b>                    | UN 1993  |
| <b>14.2. UN proper shipping name</b>      | Flammable liquid, n.o.s. (contains 2-Ethylhexenal / n-Butyraldehyde) |
| <b>14.3. Transport hazard class(es)</b>   | 3  |
| <b>14.4. Packing group</b>                | III  |
| <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                             | 30   |

### ADN

|   |  |
|---|--|
| <b>14.1. UN number</b>                    | UN 1993  |
| <b>14.2. UN proper shipping name</b>      | Flammable liquid, n.o.s. (contains 2-Ethylhexenal / n-Butyraldehyde)<br>Special Provision 640E |
| <b>14.3. Transport hazard class(es)</b>   | 3  |
| <b>14.4. Packing group</b>                | III  |
| <b>14.5. Environmental hazards</b>        | Fish and tree  |
| <b>14.6. Special precautions for user</b> |  |
| Classification Code                       | F1   |
| Hazard Number                             | 30   |

### ICAO-TI / IATA-DGR

|   |  |
|---|--|
| <b>14.1. UN number</b>                    | UN 1993  |
| <b>14.2. UN proper shipping name</b>      | Flammable liquid, n.o.s. (contains 2-Ethylhexenal / n-Butyraldehyde) |
| <b>14.3. Transport hazard class(es)</b>   | 3  |
| <b>14.4. Packing group</b>                | III  |
| <b>14.5. Environmental hazards</b>        | Fish and tree  |
| <b>14.6. Special precautions for user</b> | no data available  |

### IMDG

# SAFETY DATA SHEET



Zorgol 48  
10240

Version / Revision 2

|   |  |
|---|--|
| <b>14.1. UN number</b>  | UN 1993  |
| <b>14.2. UN proper shipping name</b>  | Flammable liquid, n.o.s. (contains 2-Ethylhexenal / n-Butyraldehyde) |
| <b>14.3. Transport hazard class(es)</b>   | 3  |
| <b>14.4. Packing group</b>  | III  |
| <b>14.5. Environmental hazards</b>  |  |
| Marking   | Fish and tree  |
| Marine pollutant  | yes  |
| <b>14.6. Special precautions for user</b>                                       |  |
| EmS   | F-E, S-E   |
| <b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | not applicable   |

## 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

#### 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    |
|--|-----------|
| Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification<br>CAS: - | regulated |

### International Inventories

Reaction product of propylene and synthesis gas in a hydroformylation being a sidestream during purification, CAS: -

EC-No. 9204274 (EU)

### 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



Zorgol 48  
10240

Version / Revision 2

## 15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

## SECTION 16: Other information

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

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye 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 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**