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



OXFILM 351 11260A

Version / Revision6.01Revision Date27-Jan-2023Supersedes Version6.00\*\*\*Issuing date27-Jan-2023

Supersedes version 0.00 issuing date 27-Jan-2025

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

#### 1.1. Product identifier

Identification of the substance/preparation

**OXFILM 351** 

**Chemical Name** 

2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate)

**CAS-No** 94-28-0 **EC No.** 202-319-2

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

Identified uses coalescent agent

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

Based on present data no classification and labelling is required according to Directive 1272/2008/EC and its amendments (CLP Regulation)

#### 2.2. Label elements

Not required.

#### 2.3. Other hazards

None known

PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulating nor toxic

(PBT), nor very persistent nor very bioaccumulating (vPvB)

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**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 (%)
2,2'-Ethylenedioxydiethyl	94-28-0	-	> 97
bis(2-ethylhexanoate)			

## 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

None known.

#### Special hazard

None known.

## 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

#### Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO2), water spray

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

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## 5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide (CO)

carbon dioxide (CO2)

Combustion gases of organic materials must in principle be graded as inhalation poisons Vapours are heavier than air and may spread along floors

#### 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).

### 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.

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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.

### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

## 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.

#### Technical measures/Storage conditions

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

#### Unsuitable material

None known

#### **Temperature class**

T2

## 7.3. Specific end use(s)

coalescent agent

## 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**

## 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0 Workers

DN(M)EL - long-term exposure - systemic effects - Inhalation 27.9 ma/m<sup>3</sup> DN(M)EL - acute / short-term exposure - systemic effects - Inhalation No hazard identified DN(M)EL - long-term exposure - local effects - Inhalation 167.4 ma/m<sup>3</sup> DN(M)EL - acute / short-term exposure - local effects - Inhalation No hazard identified 5 mg/kg bw/day DN(M)EL - long-term exposure - systemic effects - Dermal DN(M)EL - acute / short-term exposure - systemic effects - Dermal No hazard identified DN(M)EL - long-term exposure - local effects - Dermal No hazard identified DN(M)EL - acute / short-term exposure - local effects - Dermal No hazard identified DN(M)EL - local effects - eyes No hazard identified

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#### **General population**

DN(M)EL - long-term exposure - systemic effects - Inhalation

DN(M)EL - acute / short-term exposure - systemic effects - Inhalation No

DN(M)EL - long-term exposure - local effects - Inhalation

DN(M)EL - acute / short-term exposure - local effects - Inhalation

DN(M)EL - long-term exposure - systemic effects - Dermal

DN(M)EL - acute / short-term exposure - systemic effects - Dermal

DN(M)EL - long-term exposure - local effects - Dermal

DN(M)EL - acute / short-term exposure - local effects - Dermal

DN(M)EL - long-term exposure - systemic effects - Oral

DN(M)EL - acute / short-term exposure - systemic effects - Oral

DN(M)EL - local effects - eyes

8,33 mg/m<sup>3</sup>

No hazard identified

50 mg/m<sup>3</sup>

No hazard identified

3 mg/kg bw/day

No hazard identified

No-threshold effect and/or no dose-response information

available

No hazard identified 3 mg/kg bw/day

No hazard identified No hazard identified

#### **Environment**

PNEC aqua - freshwater PNEC aqua - marine water

PNEC aqua - intermittent releases

PNEC STP

PNEC sediment - freshwater

PNEC sediment - marine water

PNEC Air

PNEC soil Secondary poisoning

0,039 mg/l 0,004 mg/l

0,387 mg/l

1,94 g/l

88,78 mg/kg dw 8,88 mg/kg dw

No hazard identified

17,7 mg/kg

No potential to cause toxic effects

if accumulated (in higher organisms) via the food chain

#### 8.2. Exposure controls

#### Special adaptations (REACh)

Not applicable.

#### **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.

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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.

Suitable material nitrile rubber

**Reference substance** Di-(2-ethylhexyl)-phthalate according to EN 374: level 6

Glove thickness approx 0,55 mm Break through time > 480 min

Suitable materialpolyvinylchloride / nitrile rubberReference substanceDi-(2-ethylhexyl)-phthalateEvaluationaccording to EN 374: level 6

Glove thickness approx 0,9 mm Break through time > 480 min

#### Skin and body protection

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

#### **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

Physical stateliquidColourcolourlessOdourfruity mild

Odour threshold
Melting point/freezing point
Method

No data available
-70 °C (Pour point)
DIN ISO 3016

Boiling point or initial boiling 340 - 351 °C @ 1013 hPa

point and boiling range

Method

D

DIN 53171

Flammability Even if not classified as flammable, the product is capable of catching fire or

being set on fire.\*\*\*

Lower explosion limit 0,46 Vol %

Upper explosion limitNo data availableFlash point196 °C @ 1013 hPa

Method ISO 2719

Autoignition temperature 365 °C @ 1027 hPa

Method DIN 51794

**Decomposition temperature** No data available **PH** No data available

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16,960 mm<sup>2</sup>/s @ 20 °C **Kinematic Viscosity** DIN 51562, ASTM D445 Method

1,53 mg/l @ 20 °C, in water, OECD 105 Solubility

6,1 (measured) OECD 117 **Partition coefficient** 

n-octanol/water (log value)

Vapour pressure

Values [kPa] Values [atm] @ °C @ °F Method Values [hPa] < 0.001 < 0.0001 < 0,001 25 77 EU A.4

Density and/or relative density

@ °C Values @ °F Method 0,967 20 **DIN 51757** 68

Relative vapour density No data available **Particle characteristics** not applicable

#### 9.2. Other information

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

associated with explosive properties

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

associated with oxidizing properties

402.56 Molecular weight Molecular formula C22 H42 O6 4,36 OECD 121 log Koc 0,68 µS/m @ 20 °C Conductivity 1,444 @ 20 °C Refractive index

45,8 mN/m (1,375 mg/l @ 20°C), OECD 115 Surface tension

**Evaporation rate** 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

Stable under recommended storage conditions. Thermal decomposition can take place above 250°C.

#### 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

None known.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

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

Likely routes of exposure Ingestion, Eye contact, Skin contact

Acute toxicity					
2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)					
Routes of Exposure	Endpoint	Values	Species	Method	
Oral	LD50	> 2000 mg/kg	rat, female	OECD 420	
Dermal	LD50	> 2000 mg/kg	rat, male/female	OECD 402	
Inhalative	LC50	> 2000 mg/m³ (4h)	rat, male	OECD 403	

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

#### Assessment

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

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

STOT SE

Irritation and corrosion	1				
2,2'-Ethylenedioxydiet	hyl bis(2-ethylhe	xanoate) (94-28-0)			
Target Organ Effects	Species	Result	Method		
Skin	rabbit	Mild skin irritation	OECD 404	4h	
Eyes	rabbit	Mild eye irritation	OECD 405		

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

#### Assessment

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

skin irritation/corrosion

eye irritation/corrosion

For respiratory irritation, no data are available

Sensitization				
2,2'-Ethylenedioxydiet	hyl bis(2-ethylhex	anoate) (94-28-0)		
Target Organ Effects	Species	Evaluation	Method	
Skin	mouse	not sensitizing	OECD 429	in vivo
Skin	guinea pig	not sensitizing	OECD 406	in vivo

## 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

**Assessment** 

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

Skin sensitization

For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity					
2,2'-Ethylenedioxydie	thyl bis(2-ethylhexanoa	te) (94-28-0)			
Туре	Dose	Species	Method		
Subacute toxicity	NOAEL: 5000 ppm	rat, male/female	OECD 422	Oral	
Subacute toxicity	NOAEC: 1000 mg/m³ (14 d)	rat, male	OECD 403	Inhalation	
Subchronic toxicity	NOAEL: 120 mg/kg/d (90d)	rat, female	OECD 408	Oral	

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#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

#### **Assessment**

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

Carcinogenicity, Muta	Carcinogenicity, Mutagenicity, Reproductive toxicity					
2,2'-Ethylenedioxydiet	2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)					
Туре		Species	Evaluation	Method		
Mutagenicity		Salmonella typhimurium Escherichia coli	negative	OECD 471 (Ames)	In vitro study	
Mutagenicity		mouse lymphoma cells	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study	
Mutagenicity		human lymphocytes	negative	OECD 473 (Chromosomal Aberration)	In vitro study	
Reproductive toxicity		rat, parental male/female		OECD 422, Oral		
Reproductive toxicity	ppm	rat, 1. Generation, male/female		OECD 422, Oral		
Developmental Toxicity	NOAEL 300 mg/kg/d	rat	Maternal toxicity	OECD 414, Oral		
Developmental Toxicity	NOAEL 300 mg/kg/d	rat	Developmental toxicity Fetal toxicity	OECD 414, Oral		
Reproductive toxicity	NOAEL 250 mg/kg/d	rat, parental male/female		OECD 443 Oral		
Reproductive toxicity	NOAEL >= 750 mg/kg/d	rat, 1. Generation, male/female rat 2. Generation, male/female		OECD 443 Oral	Reproduction / developmental Toxicity	
Carcinogenicity	No data available					

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

#### **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

#### **Evaluation**

In vitro tests did not show mutagenic effects

Animal testing did not show any effects on fertility

No developmental effects in the absence of maternal toxicity

No cancer study was conducted

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

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

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

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

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

STOT RE

## **Aspiration toxicity**

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no data available

#### 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. **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

Acute aquatic toxicity	Acute aquatic toxicity					
2,2'-Ethylenedioxydiethyl bis(	2-ethylhexanoate) (9	4-28-0)				
Species	Exposure time	Dose	Method			
Pimephales promelas (fathead minnow)	96h	LC50: > 97 mg/l				
Danio rerio (Zebra fish)	96h	LC0: > 78 mg/l	84/449/EEC C.1			
Daphnia magna (Water flea)	96h	EC50: > 97 mg/l	Mobility			
Desmodesmus subspicatus	72h	EC50: > 55,9 mg/l (Growth rate)	84/449/EEC C.3			
Americamysis bahia	48h	LC50: > 1,8 mg/l	EPA/600/4-90/027			
Pseudomonas putida	5 h	EC10: >1,934 g/l	Respiration inhibition			

Long term toxicity					
2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)					
Туре	Species	Dose	Method		
1		NOEC: ~ 27,3 mg/l (3d) Cell number	84/449/EEC C.3		

## 12.2. Persistence and degradability

## 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0 Biodegradation

92 % (28 d), BOD, activated sludge (domestic), aerobic, Readily biodegradable.

Abiotic Degradation					
2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)					
Туре	Result	Method			
Hydrolysis	No data available				
Photolysis	No data available				

#### 12.3. Bioaccumulative potential

2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)				
Type	Result	Method		
log Pow	6,1 @ 25 °C (77 °F)	measured, OECD 117		
BCF	No data available			

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## 12.4. Mobility in soil

2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate) (94-28-0)				
Туре	Result	Method		
Surface tension	45,8 mN/m @ 20 °C (68 °F) @ 1,375 mg/l	OECD 115		
Adsorption/Desorption	log Koc: 4,36	OECD 121		
Distribution to environmental compartments	no data available			

#### 12.5. Results of PBT and vPvB assessment

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

#### 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. 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

#### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

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.

## SECTION 14: Transport information

## **Section 14.1 - 14.6**

ADR/RID Not restricted

ADN: Container and Tanker

Not restricted

ICAO-TI / IATA-DGR Not restricted

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IMDG Not restricted

14.7. Maritime transport in bulk according not applicable to IMO instruments

## 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 not subject

DI 1999/13/EC (VOC Guideline)

Component	Status
2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate)	not subject
CAS: 94-28-0	

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

Component	Status
2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate)	The substance will not be pre-registered
CAS: 94-28-0	

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

#### **International Inventories**

### 2,2'-Ethylenedioxydiethyl bis(2-ethylhexanoate), CAS: 94-28-0

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2023192 (EU)
ENCS (2)-658 (JP)
ISHL (2)-658 (JP)
KECI KE-13751 (KR)
PICCS (PH)
TSCA (US)
NZIoC-NZ with note
TCSI (TW)

#### National regulatory information Great Britain

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

not subject

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

not subject

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## **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) has been generated. As this product is not hazardous under REACh, no Exposure Scenarios have been calculated.

## SECTION 16: Other information

#### **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

#### Training advice

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

#### Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

#### Further information for the safety data sheet

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The annex is not required because the substance is not hazardous 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**