

## Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

### KERAKOVER ACTIV

Date of first edition: 10/31/2022

Safety Data Sheet dated 11/25/2022

version 8

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

### 1.1. Product identifier

Mixture identification:

Trade name: KERAKOVER ACTIV

Trade code: FS230 .011X

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

Recommended use: Coating compound

Uses advised against: Data not available.

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

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy - +39-0536-816511

Ireland

Poison information centre: 01 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Skin Sens. 1A May cause an allergic skin reaction.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



Warning

#### Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe vapours.

P280 Wear protective gloves and eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P501 Dispose of contents/container in accordance with applicable regulations.

#### Contains

2-octyl-2H-isothiazol-3-one

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

Other Hazards: No other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: KERA KOVER ACTIV

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
1-2,4 %	2,2' -oxybisethanol; diethylene glycol	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6	Acute Tox. 4, H302	01-2119457857-21
< 0,3 %	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS:68424-85-1 EC:270-325-2	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10	
< 0,1 %	2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100  Specific Concentration Limits: C $\geq 0.0015\%$ : Skin Sens. 1A H317  Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw	
< 0,05 %	Sulphuric acid	CAS:7664-93-9 EC:231-639-5 Index:016-020-00-8	Skin Corr. 1A, H314  Specific Concentration Limits: C $\geq 15\%$ : Skin Corr. 1A H314 5% $\leq$ C < 15%: Skin Irrit. 2 H315 5% $\leq$ C < 15%: Eye Irrit. 2 H319	01-2119458838-20

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.  
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### 4.2. Most important symptoms and effects, both acute and delayed

N.A.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Notes
2-octyl-2H-isothiazol-3-one	NATIONAL	AUSTRIA		0.050		0.050		Long term and short term: inhalable aerosol
	NATIONAL	GERMANY		0.050		0.100		AGS; Long term and short term: inhalable aerosol

Sulphuric acid	NATIONAL	GERMANY	0.050	0.100	DFG; Long term and short term: inhalable aerosol
	NATIONAL	SWITZERLAND	0.050	0.100	Long term and short term: inhalable aerosol
	NATIONAL	SLOVENIA	0.050	0.100	Long term and short term: inhalable fraction
	EU	NNN	0.05		Thoracic fraction
	NATIONAL	AUSTRIA	0.100	0.200	Long term and short term: inhalable aerosol
	NATIONAL	BELGIUM	1.000	3.000	
	NATIONAL	CANADA	0.200		Ontario
	NATIONAL	CANADA	1.000	3.000	Quebec
	NATIONAL	DENMARK	1.000	2.000	
	NATIONAL	FRANCE	0.050	3.000	Long term: thoracic fraction
	NATIONAL	GERMANY	0.100	0.100	AGS; Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	0.100	0.100	DFG; Long term and short term: inhalable aerosol
	NATIONAL	HUNGARY	1.000	1.000	
	NATIONAL	IRELAND	0.050		
	NATIONAL	ISRAEL	0.300		
	NATIONAL	ITALY	0.050		Thoracic fraction
	NATIONAL	JAPAN	1.000		JSOH
	NATIONAL	LATVIA	0.050		
	NATIONAL	NEW ZEALAND	0.100		
	NATIONAL	CHINA	1.000	2.000	
	NATIONAL	POLAND	1.000	3.000	
	NATIONAL	ROMANIA	0.050		
	NATIONAL	SINGAPORE	1.000	3.000	
	NATIONAL	KOREA, REPUBLIC OF	0.200	0.600	
	NATIONAL	SPAIN	0.050		
	NATIONAL	SWEDEN	0.100	0.200	Long term and short term: inhalable fraction
	NATIONAL	SWITZERLAND	0.100	0.200	Long term and short term: inhalable fraction
	NATIONAL	NETHERLANDS	0.050		Thoracic aerosol
	NATIONAL	TURKEY	0.050		
	NATIONAL	UNITED STATES OF AMERICA	1.000		NIOSH
	NATIONAL	UNITED STATES OF AMERICA	1.000		OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	1.000		OSHA
	NATIONAL	ARGENTINA	1.000	3.000	
	NATIONAL	BULGARIA	0.050		

	NATIONAL	CZECHIA	1.000	2.000	
	NATIONAL	CHILE	0.880	3.000	
	NATIONAL	CROATIA	0.050		
	NATIONAL	ESTONIA	0.050		
	NATIONAL	ICELAND	0.050		
	NATIONAL	LITHUANIA	0.050	3.000	
	NATIONAL	MALAYSIA	1.000		
	NATIONAL	MEXICO	0.200		
	NATIONAL	PORTUGAL	0.200		
	NATIONAL	RUSSIAN FEDERATIO N		1.000	
	NATIONAL	SLOVAKIA	0.050		
	NATIONAL	SLOVENIA	0.050	0.050	
	NATIONAL	SOUTH AFRICA	1.000	3.000	
	NATIONAL	TAIWAN, PROVINCE OF CHINA	1.000		
	ACGIH	NNN	0.2		(T), A2(M) - Pulm func
	EU	NNN	0.05		
triisobutyl phosphate	NATIONAL	GERMANY	50.000	100.000	

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
2-octyl-2H-isothiazol-3-one	26530-20-1	2.200 µg/l	Freshwater	
		1.220 µg/l	Intermittent releases (freshwater)	
		220.000 ng/L	Marine water	
		122.000 ng/L	Intermittent releases (marine water)	
		47.500 µg/kg	Freshwater sediments	
Sulphuric acid	7664-93-9	47.500 µg/kg	Marine water sediments	
		8.200 µg/kg	Soil	
		2.500 µg/l	Freshwater	
		250.000 ng/L	Marine water	
		8.800 mg/l	Microorganisms in sewage treatments	
		2.000 µg/kg	Freshwater sediments	
		2.000 µg/kg	Marine water sediments	

#### Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
Sulphuric acid	7664-93-9		50.000 µg/m³		Human Inhalation	Long Term, local effects
			100.000 µg/m³		Human Inhalation	Short Term, local effects

## 8.2. Exposure controls

Eye protection:

Eye glasses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Nitrile rubber .

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

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

Physical State Liquid

Color: Light red

Odour: Light

Odour threshold: N.A.

pH: Not Relevant ( OECD 122 )

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: > 100°C / 212°F

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: 23.00 hPa @ 20°C

Relative density: 1.10 g/cm<sup>3</sup> ( ISO 2811 )

Solubility in water: Soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 1.1 % ; 18.7 g/l

#### Particle characteristics:

Particle size: N.A.

### 9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A. No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Data not available.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

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

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

2,2' -oxybisethanol; diethylene glycol	a) acute toxicity	LD50 Oral Rat = 16500.00 mg/kg  LC50 Inhalation of aerosol Rat > 4.60 mg/l 4h LD50 Skin Rabbit = 13300.00 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Human Negative 24h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No 24h	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 3060.00 mg/kg	Mouse
2-octyl-2H-isothiazol-3-one	a) acute toxicity	ATE - Oral : 125 mg/kg bw  ATE - Dermal : 311 mg/kg bw LD50 Oral Rat = 125.00 mg/kg LC50 Inhalation Mist Rat = 0.27 mg/l 4h LD50 Skin Rabbit = 311.00000 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive	
Sulphuric acid	a) acute toxicity	LD50 Oral Rat = 2140.00 mg/kg LC50 Inhalation of aerosol Rat = 375.00 mg/m3	

## 11.2 Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
2,2' -oxybisethanol; diethylene glycol	CAS: 111-46-6 - EINECS: 203-872-2 - INDEX: 603-140-00-6	<p>a) Aquatic acute toxicity : LC50 Fish = 75200.00 mg/L 96h</p> <p>b) Aquatic chronic toxicity : NOEC Fish Pimephales promelas = 15380.00 mg/L EPA guideline 600/4-89/001 - 7days</p> <p>a) Aquatic acute toxicity : EC50 invertebrates &gt; 10000.00 mg/L 48h</p> <p>a) Aquatic acute toxicity : NOEC Algae Scenedesmus quadricauda = 100.00 mg/L</p> <p>d) Terrestrial toxicity : LC50 Worm Eisenia andrei = 10974.00 mg/kg - 63days</p>
2-octyl-2H-isothiazol-3-one	CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5	<p>a) Aquatic acute toxicity : LC50 Fish freshwater fish = 0.12200 mg/L dossier ECHA</p> <p>b) Aquatic chronic toxicity : EC10 Fish = 0.02200 mg/L dossier ECHA</p> <p>a) Aquatic acute toxicity : EC50 freshwater invertebrates = 0.18100 mg/L dossier ECHA</p> <p>b) Aquatic chronic toxicity : EC10 freshwater invertebrates = 0.03500 mg/L dossier ECHA</p> <p>LC50 Algae freshwater algae = 0.15000 mg/L</p>
Sulphuric acid	CAS: 7664-93-9 - EINECS: 231-639-5 - INDEX: 016-020-00-8	<p>a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 16.00 mg/L 96h</p> <p>b) Aquatic chronic toxicity : NOEC Fish Jordanella floridae = 0.02 mg/L</p> <p>a) Aquatic acute toxicity : EC50 Daphnia magna &gt; 100.00 mg/L 48h</p> <p>b) Aquatic chronic toxicity : NOEC Tanytarsus dissimilis = 0.15 mg/L</p> <p>a) Aquatic acute toxicity : NOEC Algae Desmodesmus subspicatus = 100.00 mg/L 72h</p> <p>c) Bacteria toxicity : NOEC Sludge = 26000.00 mg/L</p>

## 12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Value	Notes
2,2' -oxybisethanol; diethylene glycol	Readily biodegradable	CO2 production	92.000	28days
2-octyl-2H-isothiazol-3-one	Non-readily biodegradable			

## 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes
2,2' -oxybisethanol; diethylene glycol	Bioaccumulative	BCF - Bioconcentration factor	100.000	3day
2-octyl-2H-isothiazol-3-one	Bioaccumulative	BCF - Bioconcentration factor	19.210	L/kg ww

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

## 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## 12.7 Other adverse effects

N.A.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

### Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 13: Sensitising; HP 14: Ecotoxic

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## SECTION 14: Transport information

### 14.1. UN number or ID number

3082

### 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiazol-3-one - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiazol-3-one - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiazol-3-one - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

### 14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Toxic Component most present: 2-octyl-2H-isothiazol-3-one

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-A, S-F

### 14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: 9

ADR - Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E1

Air (IATA) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197 A215

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 28, 75

Provisions related to directive EU 2012/18 (Seveso III):

**Seveso III category according to Annex 1, part 1**

Product belongs to category: E2      200      500

**Regulation (EU) 649/2012 (PIC regulation):**

No Substance Listed

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

No data available

## **REGULATION (EU) No 528/2012**

Nomenclature IUPAC: N-benzyl-N,N-dimethyltetradecan-1-aminium chloride

Nomenclature BPR: ADBAC/BKC(C12-16)

CAS number: 68424-85-1

Product-type 10: Construction material preservatives

Assessment status: Initial application for approval in progress.

; Nomenclature IUPAC: octhilinone (ISO); 2-octyl-2H-isothiazol-3-one

Nomenclature BPR: OIT

CAS number: 26530-20-1

Product-type 6: Preservatives for products during storage

Assessment status: Initial application for approval in progress.

Product-type 7: Film preservatives

Assessment status: Initial application for approval in progress.

Product-type 8: Film preservatives

Assessment status: Approved

Commission Implementing Regulation EU 2017/1277

Product-type 10: Construction material preservatives

Assessment status: Initial application for approval in progress.

## **15.2. Chemical safety assessment**

A Chemical Safety Assessment has been carried out for the mixture.

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## **SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1	Skin Corr. 1	Skin corrosion, Category 1
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
EUH071		EUH071

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

**Classification according to Regulation (EC) Nr. 1272/2008      Classification procedure**

3.4.2/1A	Calculation method
4.1/C2	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: Keep Away From Heat  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 15. REGULATORY INFORMATION

# Exposure Scenario

## 2,2'-oxydiethanol; diethylene glycol

### Exposure Scenario, 07/07/2021

Substance identity	
	2,2'-oxydiethanol; diethylene glycol
CAS No.	111-46-6
INDEX No.	603-140-00-6
EINECS No.	203-872-2
Registration number	01-2119457857-21

### Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC1)

## 1. ES 1

Widespread use by professional workers; Various products (PC9a, PC1)

**1.1 TITLE SECTION**

<b>Exposure Scenario name</b>	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants
<b>Date - Version</b>	07/07/2021 - 1.0
<b>Life Cycle Stage</b>	Widespread use by professional workers
<b>Main user group</b>	Professional uses
<b>Sector(s) of use</b>	Professional uses (SU22)
<b>Product Categories</b>	Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1)

**Environment Contributing Scenario**

<b>CS1</b>	ERC8a - ERC8d - ERC8c - ERC8f
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**Worker Contributing Scenario**

<b>CS2 Material transfers</b>	PROC8a
<b>CS3 Rolling, Brushing</b>	PROC10
<b>CS4 Roller, spreader, flow application</b>	PROC11

**1.2 Conditions of use affecting exposure****1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d, ERC8c, ERC8f)**

<b>Environmental release categories</b>	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) - Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to inclusion into/onto article (outdoor) (ERC8a, ERC8d, ERC8c, ERC8f)
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*Product (article) characteristics***Physical form of product:**

Liquid

**Vapour pressure:**

= 0.8 Pa

**Concentration of substance in product:**

Covers percentage substance in the product up to 100 %.

**1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)**

<b>Process Categories</b>	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
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*Product (article) characteristics***Physical form of product:**

Liquid

**Vapour pressure:**

= 0.8 Pa

**Concentration of substance in product:**

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Covers use up to = 480 min

**Frequency:**

Use frequency = 5 days per week

### *Technical and organisational conditions and measures*

#### Technical and organisational measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.  
Local exhaust ventilation

Inhalation - minimum efficiency of: = 80 %

### *Conditions and measures related to personal protection, hygiene and health evaluation*

#### Personal protection

Wear suitable respiratory protection.

#### *Other conditions affecting worker exposure*

Indoor use

Professional use

**Temperature:** Assumes use at not more than 20 °C above ambient temperature.

### **1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)**

#### Process Categories

Roller application or brushing (PROC10)

### *Product (article) characteristics*

#### Physical form of product:

Liquid

#### Vapour pressure:

= 0.8 Pa

#### Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

### *Amount used, frequency and duration of use/exposure*

#### Duration:

Covers use up to = 480 min

#### Frequency:

Use frequency = 5 days per week

### *Technical and organisational conditions and measures*

#### Technical and organisational measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.  
Local exhaust ventilation

Inhalation - minimum efficiency of: = 80 %

### *Conditions and measures related to personal protection, hygiene and health evaluation*

#### Personal protection

Wear suitable respiratory protection.  
Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Dermal - minimum efficiency of: 90 %

#### *Other conditions affecting worker exposure*

Indoor use

Professional use

**Temperature:** Assumes use at not more than 20 °C above ambient temperature.

### **1.2. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)**

#### Process Categories

Non industrial spraying (PROC11)

### *Product (article) characteristics*

**Physical form of product:**

Liquid

**Vapour pressure:**

= 0.8 Pa

**Concentration of substance in product:**

Covers percentage substance in the product up to 100 %.

### *Amount used, frequency and duration of use/exposure*

**Duration:**

Covers use up to = 480 min

**Frequency:**

Use frequency = 5 days per week

### *Technical and organisational conditions and measures*

**Technical and organisational measures**

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

### *Conditions and measures related to personal protection, hygiene and health evaluation*

**Personal protection**

Wear chemically resistant gloves (tested to EN374) in combination with "basic" employee training.

Dermal - minimum efficiency of: 90 %

### *Other conditions affecting worker exposure*

Indoor use

Professional use

**Temperature:** Assumes use at not more than 20 °C above ambient temperature.

## 1.3 Exposure estimation and reference to its source

### 1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d, ERC8c, ERC8f)

**Additional information on exposure estimation:**

As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

### 1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 13.7143 mg/kg bw/day	ECETOC TRA worker v3	= 0.318937
inhalative, systemic, long-term	= 22.1084 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.502464

### 1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 2.7429 mg/kg bw/day	ECETOC TRA worker v3	= 0.063787
inhalative, systemic, long-term	= 22.1084 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.502464

### 1.3. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 13 mg/kg bw/day	ECETOC TRA worker v3	= 0.302326
inhalative, systemic, long-term	= 6.3 mg/m <sup>3</sup>	ECETOC TRA worker v3	= 0.143182

### 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.