



Page 1 of 17  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 10.05.2023 / 0001  
Replacing version dated / version: 10.05.2023 / 0001  
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OS 3000 One Step

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**OS 3000 One Step**

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

**Relevant identified uses of the substance or mixture:**

Polish

**Uses advised against:**

No information available at present.

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

ZVIZZER INTERNATIONAL GMBH

Grube Weiß 26

51429 Bergisch Gladbach

Deutschland

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 177 3016109

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

EUH210-Safety data sheet available on request.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).



## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

<b>White mineral oil (Natural oil)</b>	
<b>Registration number (REACH)</b>	01-2119487078-27-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	232-455-8
<b>CAS</b>	8042-47-5
<b>content %</b>	10-<25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M factors</b>	Asp. Tox. 1, H304

<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2%aromatics</b>	
<b>Registration number (REACH)</b>	01-2119457273-39-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	918-481-9
<b>CAS</b>	(64742-48-9)
<b>content %</b>	10-<25
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M factors</b>	EUH066 Asp. Tox. 1, H304

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
Never pour anything into the mouth of an unconscious person!

### **Inhalation**

Supply person with fresh air and consult doctor according to symptoms.

### **Skin contact**

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### **Eye contact**

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### **Ingestion**

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.



Page 3 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

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OS 3000 One Step

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Adapt to the nature and extent of fire.

Water jet spray / alcohol resistant foam / CO<sub>2</sub> / dry extinguisher.

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Oxides of nitrogen

Toxic gases

### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

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

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

#### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

### **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
Prevent from entering drainage system.  
If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and

### 6.1. 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
Avoid contact with eyes.  
Avoid long lasting or intensive contact with skin.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.



Page 4 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 10.05.2023 / 0001  
Replacing version dated / version: 10.05.2023 / 0001  
Valid from: 10.05.2023  
PDF print date: 10.05.2023  
OS 3000 One Step

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed. **7.2 Conditions for safe storage, including any incompatibilities**  
Store product closed and only in original packing.  
Not to be stored in gangways or stair wells.  
Store at room temperature.  
Store in a dry place.

#### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m<sup>3</sup>

**Chemical Name** Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

WEL-TWA: 800 mg/m<sup>3</sup>

WEL-STEL: ---



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Monitoring procedures: - Draeger - Hydrocarbons 0,1%/c (81 03 571)  
- Draeger - Hydrocarbons 2/a (81 03 581)  
- Compur - KITA-187 S (551 174)

BMGV: ---

Other information: (OEL acc. to RCP method, paragraphs 84-87, EH40)

**Chemical Name** Glycerol

WEL-TWA: 10 mg/m3 (mist)		WEL-STEL: ---		---		
Monitoring procedures: ---						
BMGV: --- Other information: ---  <b>Chemical Name</b> Aluminium oxide						
WEL-TWA: 10 mg/m3 (total inhal. dust), 4mg/m3 (resp. dust) (aluminium oxides)		WEL-STEL: ---		---		
Monitoring procedures: ---						
BMGV: --- Other information: ---  <b>Chemical Name</b> Oil mist, mineral						
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal working fluids, ACGIH)		WEL-STEL: ---		---		
Monitoring procedures: - Draeger - Oil Mist 1/a (67 33 031)						
BMGV: --- Other information: --- <b>White mineral oil (Natural oil)</b>						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term, systemiceffects	DNEL	92	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemiceffects	DNEL	35	mg/m3	
Consumer	Human - oral	Long term, systemiceffects	DNEL	40	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	160	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	220	mg/kg	



Page 5 of 17  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 10.05.2023 / 0001  
 Replacing version dated / version: 10.05.2023 / 0001  
 Valid from: 10.05.2023  
 PDF print date: 10.05.2023  
 OS 3000 One Step

Workers / employees Human - dermal Long term, systemic DNEL 220 mg/kg effects bw/day

Workers / employees Human - inhalation Long term, systemic DNEL 160 mg/m3effects

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemiceffects	DNEL	300	mg/kg	
Consumer	Human - dermal	Long term, systemiceffects	DNEL	300	mg/kg	
Consumer	Human - inhalation	Long term, systemiceffects	DNEL	900	mg/m3	
Workers / employees	Human - dermal	Long term, systemiceffects	DNEL	300	mg/kg	


#### Glycerol

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,885	mg/l	
	Environment - marine		PNEC	0,088	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
	Environment - sediment, freshwater		PNEC	3,3	mg/kg dw	
	Environment - sediment, marine		PNEC	0,33	mg/kg dw	
	Environment - soil		PNEC	0,141	mg/kg dw	
	Environment - water, sporadic (intermittent) release		PNEC	8,85	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Consumer	Human - oral	Long term, systemiceffects	DNEL	229	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	56	mg/m3	

#### Aluminium oxide

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	20	mg/l	
Industrial	Human - inhalation	Long term	DNEL	3	mg/m3	
Commercial	Human - inhalation	Long term	DNEL	3	mg/m3	
Consumer	Human - inhalation	Long term, systemiceffects	DNEL	0,75	mg/m3	
Consumer	Human - oral	Long term, systemiceffects	DNEL	1,32	mg/kg bw/day	

Consumer	Human - oral	Long term	DNEL	6,22	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	3	mg/m3	

 WEL-TWA = Workplace Exposure Limit - Long-term

exposure limit (8-hour TWA (= time weighted average) reference period)

Page 6 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15- minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective nitrile gloves (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.  
Filter A P2 (EN 14387), code colour brown, white  
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
Not applicable

Page 7 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 10.05.2023 / 0001  
Replacing version dated / version: 10.05.2023 / 0001  
Valid from: 10.05.2023  
PDF print date: 10.05.2023  
OS 3000 One Step

Additional information on hand protection - No tests have been performed.  
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.  
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: Grey

Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter. Boiling point or initial boiling point and boiling range: There is no information available on this parameter. Flammability: There is no information available on this parameter. Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter. Flash point: There is no information available on this parameter. Auto-ignition temperature: There is no information available on this parameter. Decomposition temperature: There is no information available on this parameter. pH: 8-9

Kinematic viscosity: >20,5 mm<sup>2</sup>/s (40°C, Analogous conclusion ) Solubility: There is no information available on this parameter. Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: There is no information available on this parameter. Density and/or relative density: 1,06 g/cm<sup>3</sup>  
Relative vapour density: There is no information available on this parameter. Particle characteristics: Does not apply to liquids.

### 9.2 Other information

No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

### OS 3000 One Step

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Page 8 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 10.05.2023 / 0001 Replacing version dated / version: 10.05.2023 / 0001 Valid from: 10.05.2023 PDF print date: 10.05.2023 OS 3000 One Step						
Acute toxicity, by oral route: n.d.a.						
Acute toxicity, by dermal n.d.a.route:						
Acute toxicity, by inhalation: n.d.a.						
Skin corrosion/irritation: n.d.a.						
Serious eye n.d.a.damage/irritation:						
Respiratory or skin n.d.a.sensitisation:						
Germ cell mutagenicity: n.d.a.						
Carcinogenicity: n.d.a.						
Reproductive toxicity: n.d.a.						
Specific target organ toxicity - n.d.a.single exposure (STOT-SE):						
Specific target organ toxicity - n.d.a.repeated exposure (STOT RE):						
Aspiration hazard: n.d.a.						
Symptoms: n.d.a. <b>White mineral oil (Natural oil)</b>						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:	NOAEL	>1200	mg/kg	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:					OECD 415 (One Generation Reproduction Toxicity Study)	Negative
Reproductive toxicity:	NOAEL	>=1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)	Negative
Specific target organ toxicity -repeated exposure (STOT RE):	NOAEL	>1200	mg/kg	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	
Specific target organ toxicity -repeated exposure (STOT RE):	NOAEL	>1200	mg/kg		OECD 452 (Chronic Toxicity Studies)	
Aspiration hazard:						Asp. Tox. 1
Symptoms:						nausea and vomiting.

Page 9 of 17  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 10.05.2023 / 0001  
Replacing version dated / version: 10.05.2023 / 0001  
Valid from: 10.05.2023  
PDF print date: 10.05.2023  
OS 3000 One Step

Specific target organ toxicity - NOAEL >2000 mg/kg Rat OECD 411  
repeated exposure (STOT- (Subchronic Dermal RE), dermal: Toxicity - 90-day Study)

Specific target organ toxicity - NOAEL 1000 mg/kg Rabbit OECD 410 (Repeatedrepeated exposure (STOT- Dose Dermal Toxicity - RE), dermal: 90-Day)

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/m <sup>3</sup> /4 h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours, Analogous conclusion
Acute toxicity, by inhalation:	LC50	>4951	mg/m <sup>3</sup> /4 h	Rat	OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion, Maximum achievable concentration., Vapours
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking., Product removes fat.
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Analogous conclusion, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 421 (Reproduction/Developmental Toxicity Screening Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAEC	>= 5220	mg/m <sup>3</sup>	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion in inhalation

Page 10 of 17  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 10.05.2023 / 0001  
 Replacing version dated / version: 10.05.2023 / 0001  
 Valid from: 10.05.2023  
 PDF print date: 10.05.2023  
 OS 3000 One Step

Specific target organ toxicity - OECD 408 (Repeated No indications repeated exposure (STOT- Dose 90-Day Oral of such an RE): Toxicity Study in effect., Rodents) Analogous conclusion

Aspiration hazard: Yes

Symptoms: unconsciousness, headaches,

dizziness,  
 Dermatitis (skin inflammation),  
 Reddening,  
 drying of the skin., mucous membrane irritation,  
 nausea and vomiting.,  
 diarrhoea,  
 lower abdominal pain

**Glycerol**

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	IUCLID Chem. DataSheet (ESIS)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/d			Negative
Specific target organ toxicity -repeated exposure (STOT RE):	NOAEL	3,91	mg/l	Rat		(14d)
Aspiration hazard:						Negative

Symptoms:						abdominal pain, drowsiness, diarrhoea, vomiting, headaches, mucous membrane irritation, nausea
<b>Aluminium oxide</b>						
<b>Toxicity / effect</b>	<b>Endpoint</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Acute toxicity, by oral route:	NOAEL	30	mg/kg	Rat		Analogous conclusion
Acute toxicity, by oral route:	LD50	>10000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by inhalation:	NOAEC	70	mg/m3	Rat		subchronic

Page 11 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 10.05.2023 / 0001 Replacing version dated / version: 10.05.2023 / 0001 Valid from: 10.05.2023 PDF print date: 10.05.2023 OS 3000 One Step	
Acute toxicity, by inhalation: LC50 7,6 mg/l/4h Rat Aerosol, Maximum	achievable concentration.
Skin corrosion/irritation: Rabbit OECD 404 (Acute Not irritantDermal	Irritation/Corrosion)
Serious eye Rabbit OECD 405 (Acute Not irritantdamage/irritation: Eye	Irritation/Corrosion)
Respiratory or skin Guinea pig Not sensitizisingsensitisation:	
Germ cell mutagenicity: in vivo Negative,Analogous	conclusion
Germ cell mutagenicity: Salmonella OECD 471 (Bacterial Negativityphimurium Reverse Mutation Test)	
Symptoms: constipation	

Specific target organ toxicity - LOAEL 70 mg/m<sup>3</sup> Rat Lung damage repeated exposure (STOT RE), inhalat.:

## 11.2. Information on other hazards

### OS 3000 One Step

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

### OS 3000 One Step

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulation potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.

--

Other information: DOC elimination

degree(complex  
ing organic  
substance)>=  
80%/28d: n.a.

Other information: AOX % Does not contain any

organically  
bound halogens  
which can  
contribute to  
the AOX value  
in waste water.**White mineral oil (Natural oil)**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Leuciscus idus	OECD 203 (Fish,Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish,Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EL50	21d	>1000	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EL50	48h	>1000	mg/l	Pseudokirchn eriella subcapitata	OECD 201 (Alga,Growth Inhibition Test)	
12.2. Persistence anddegradability:		28d	31,3	%		OECD 301 F (Ready Biodegradabili ty Manometric Respirometry Test)	Notreadily biodegradable
12.2. Persistence anddegradability:		28d	>60	%		OECD 301 B (Ready Biodegradabili ty Co2 Evolution Test)	Biodegradable
12.7. Other adverse effects:							Product floats on the water surface.

Toxicity to bacteria:	LC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	NOELR		>100	mg/l	Pseudomonas subspicata		
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>							
<b>Toxicity / effect</b>	<b>Endpoint</b>	<b>Time</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
12.1. Toxicity to fish:	NOELR	28d	0,10	mg/l	Oncorhynchus mykiss	QSAR	

Page 13 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

12.1. Toxicity to fish: LC50 96h >1000 mg/l Oncorhynchus OECD 203 mykiss (Fish, Acute Toxicity Test)

12.1. Toxicity to EC50 48h >1000 mg/l Daphnia magna OECD 202daphnia: (Daphnia sp. Acute Immobilisation Test)

12.1. Toxicity to NOELR 21d 0,18 mg/l Daphnia magna QSAR daphnia:

12.1. Toxicity to algae: ErL50 72h >1000 mg/l Pseudokirchnerie OECD 201Ila subcapitata (Alga, Growth Inhibition Test)

12.1. Toxicity to algae: NOELR 72h 1000 mg/l Pseudokirchnerie OECD 201Ila subcapitata (Alga, Growth Inhibition Test)

12.2. Persistence and 28d 80 % OECD 301 F Readilydegradability: (Ready biodegradable Biodegradability Manometric Respirometry Test)

12.3. Bioaccumulative Log Pow 5,5-7,2 potential:

12.4. Mobility in soil: Log Koc >3 Product is slightly volatile.

12.5. Results of PBT No PBTand vPvB assessment substance, No vPvB substance

## 12.7. Other adverse Product floatseffects: on the water surface.

Water solubility: ~10 mg/l Slight **Glycerol**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 5000	mg/l	Carassius auratus		
12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC5	72h	3200	mg/l			Entosiphon sulcatum
12.1. Toxicity to algae:	EC50		2900	mg/l	Chlorella vulgaris		
12.2. Persistence anddegradability:		14d	63	%		OECD 301 C (Ready Biodegradability Modified MITI Test (I))	
12.2. Persistence anddegradability:	BOD/COD		>60	%			
12.2. Persistence anddegradability:	BOD5/COD		> 50	%			
12.2. Persistence anddegradability:	DOC		>70	%			Readily biodegradable
12.2. Persistence anddegradability:	BOD5		0,87	g/g			
12.2. Persistence anddegradability:	COD		1,16	g/g			

Page 14 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

12.3. Bioaccumulative Log Pow -1,75 OECD 107 Bioaccumulatio potential: (Partition n is unlikely Coefficient (n- (LogPow < 1). octanol/water)- Shake Flask Method)

Toxicity to bacteria: EC5 16h > 10000 mg/l *Pseudomonas**putida***Aluminium oxide**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	218,6	mg/l	<i>Pimephales promelas</i>		
12.1. Toxicity to daphnia:	NOEC/NOEL	48h	>0,135	mg/l	<i>Daphnia magna</i>	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50		>100	mg/l	<i>Daphnia magna</i>		
12.1. Toxicity to algae:	EC50		>100	mg/l	<i>Selenastrum capricornutum</i>		
12.1. Toxicity to algae:	NOEC/NOEL	72h	>=0,05 2	mg/l	<i>Selenastrum capricornutum</i>	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulation potential:							Not relevant for inorganic substances.
12.4. Mobility in soil:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****For the substance / mixture / residual amounts**

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

12 01 09 machining emulsions and solutions free of halogens

12 01 20 spent grinding bodies and grinding materials containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

**For contaminated packing material**

Pay attention to local and national official regulations.

Empty container completely.

Page 15 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

Tunnel restriction code: Not applicable

Classification code: Not applicable

LQ: Not applicable

Transport category: Not applicable

#### Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

Marine Pollutant: Not applicable

EmS: Not applicable

#### Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 11,5 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

## Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Page 16 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H304 May be fatal if swallowed and enters airways.

H373 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera  
EU European Union  
EVAL Ethylene-vinyl alcohol copolymer

Page 17 of 17

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 10.05.2023 / 0001

Replacing version dated / version: 10.05.2023 / 0001

Valid from: 10.05.2023

PDF print date: 10.05.2023

OS 3000 One Step

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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