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### DM 100

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING



### 1.1 Product identifier: DM 100 Other means of identification: Non-applicable 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Washing of vehicles.. For professional users only. Uses advised against: All uses not specified in this section or in section 7.3 1.3 Details of the supplier of the safety data sheet: P.P.H.U. "ORION" Paweł Długosz Barycz 42 A 95-082 Dobroń - Polska Phone: 793310770 sales@orion-chemia.eu

www.orion-chemia.eu

#### **1.4 Emergency telephone number:** 112

#### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

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

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1: Skin corrosion, Category 1, H314

#### 2.2 Label elements:

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

Danger



#### Hazard statements:

Skin Corr. 1: H314 - Causes severe skin burns and eye damage.

#### **Precautionary statements:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison center/doctor.

UFI: MY00-H0DA-500C-3T0N

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Aqueous mixture composed of chemical products for cleaning products

Components:



#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

#### In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification				
CAS:	68439-57-6	Sulfonic acids, C14-1	6-alkane hydroxy and C14-16-alkene, sodium salts <sup>(1)</sup>	Self-classified			
EC: 931-534-0 Index: Non-applicable REACH: 01-2119513401-57- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger		5 - <7 %			
CAS:	112-34-5	2-(2-butoxyethoxy)e	thanol <sup>(1)</sup>	ATP CLP00			
EC: 203-961-6 Index: 603-096-00-8 REACH: 01-2119475104-44- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	()	3 - <5 %			
CAS:	1310-73-2	sodium hydroxide <sup>(1)</sup>		ATP CLP00			
EC: 215-185-5 Index: 011-002-00-6 REACH: 01-2119457892-27- XXXX	Regulation 1272/2008	Skin Corr. 1A: H314 - Danger		3 - <5 %			
CAS:	64-02-8 200-573-9 607-428-00-2 01-2119486762-27- XXXX	tetrasodium ethylene diamine tetraacetate <sup>(1)</sup> ATP ATP01					
Index: 6 REACH: 0		Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger		3 - <5 %		

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### Other information:

Identification	Specific concentration limit
CAS: 68439-57-6	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=38: Eye Dam. 1 - H318 5<= % (w/w) <38: Eye Irrit. 2 - H319
CAS: 1310-73-2 EC: 215-185-5	% (w/w) >=5: Skin Corr. 1A - H314 2<= % (w/w) <5: Skin Corr. 1B - H314 0,5<= % (w/w) <2: Skin Irrit. 2 - H315 % (w/w) >=2: Eye Dam. 1 - H318 0,5<= % (w/w) <2: Eye Irrit. 2 - H319

#### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.





legislation

#### DM 100



#### SECTION 4: FIRST AID MEASURES (continued)

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

Non-applicable

#### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

#### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

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# ORIOK

#### DM 100



#### SECTION 7: HANDLING AND STORAGE (continued)

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A	Technical measures for st	orage
	Minimum Temp.:	5 °C
	Maximum Temp.:	25 ºC
	Maximum time:	12 Months
_		

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits			
2-(2-butoxyethoxy)ethanol	IOELV (8h)	10 ppm	67,5 mg/m <sup>3</sup>	
CAS: 112-34-5 EC: 203-961-6	IOELV (STEL)	15 ppm	101,2 mg/m <sup>3</sup>	

#### DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 203-961-6	Inhalation	Non-applicable	101,2 mg/m <sup>3</sup>	67,5 mg/m <sup>3</sup>	67,5 mg/m <sup>3</sup>
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68439-57-6	Dermal	Non-applicable	Non-applicable	2158,33 mg/kg	Non-applicable
EC: 931-534-0	Inhalation	Non-applicable	Non-applicable	152,22 mg/m <sup>3</sup>	Non-applicable
sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
tetrasodium ethylene diamine tetraacetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-02-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-573-9	Inhalation	Non-applicable	3 mg/m <sup>3</sup>	Non-applicable	1,5 mg/m <sup>3</sup>

#### **DNEL (General population):**

	Short e	xposure	Long exposure		
Identification		Systemic	Local	Systemic	Local
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	50 mg/kg	Non-applicable
EC: 203-961-6	Inhalation	Non-applicable	60,7 mg/m <sup>3</sup>	40,5 mg/m <sup>3</sup>	40,5 mg/m <sup>3</sup>



#### DM 100

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	Short exposure		Long exposure		
Identification	Systemic	Local	Systemic	Local	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Oral	Non-applicable	Non-applicable	12,95 mg/kg	Non-applicable
CAS: 68439-57-6	Dermal	Non-applicable	Non-applicable	1295 mg/kg	Non-applicable
EC: 931-534-0	Inhalation	Non-applicable	Non-applicable	45,04 mg/m <sup>3</sup>	Non-applicable
sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
tetrasodium ethylene diamine tetraacetate	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 64-02-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-573-9	Inhalation	Non-applicable	1,2 mg/m <sup>3</sup>	Non-applicable	0,6 mg/m <sup>3</sup>

PNEC:				
Identification				
2-(2-butoxyethoxy)ethanol	STP	200 mg/L	Fresh water	1,1 mg/L
CAS: 112-34-5	Soil	0,32 mg/kg	Marine water	0,11 mg/L
EC: 203-961-6	Intermittent	11 mg/L	Sediment (Fresh water)	4,4 mg/kg
	Oral	0,056 g/kg	Sediment (Marine water)	0,44 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	STP	4 mg/L	Fresh water	0,024 mg/L
CAS: 68439-57-6	Soil	1,21 mg/kg	Marine water	0,002 mg/L
EC: 931-534-0	Intermittent	0,02 mg/L	Sediment (Fresh water)	0,767 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,077 mg/kg
tetrasodium ethylene diamine tetraacetate	STP	43 mg/L	Fresh water	2,2 mg/L
CAS: 64-02-8	Soil	0,72 mg/kg	Marine water	0,22 mg/L
EC: 200-573-9	Intermittent	1,2 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

#### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

	Pictogram	PPE	Labelling	CEN Standard	Remarks
1	Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

#### D.- Eye and face protection

	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.	CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E	Body protection				

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### DM 100



SECTION	8: EXPOSURE	CONTROLS/PERSON	IAL PROTECTI	ON (	continued)		
	Pictogram	PPE	Labelling		CEN Standard		Remarks
		Work clothing	CATI			perio recom	ce before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is imended, in accordance with the regulations ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
		Anti-slip work shoes	CAT II	E	N ISO 20347:2012	perio	ce before any evidence of deterioration. For ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulations EN ISO 20345:2012 y EN 13832-1:2007
F Additional emergency measures							
	Emergency mea	isure	Standards		Emergency measu	re	Standards

Emergency measure	Standards	Emergency measure	Standards	
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>→</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011	
Emergency shower		Eyewash stations		

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight	
V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 g/L)	
Average carbon number:	Non-applicable	
Average molecular weight:	Non-applicable	

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Fluid
Colour:	Colourless, Green
Odour:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	103 °C
Vapour pressure at 20 °C:	2335 Pa
Vapour pressure at 50 °C:	12303,76 Pa (12,3 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1050,4 kg/m³
Relative density at 20 °C:	1,05
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.

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DM 100



SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	pH:	12 - 14
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Highly water-soluble
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	Non Flammable (>60 °C)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	204 °C
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	prmation property of its hazards.

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### **10.2** Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Not applicable

#### **10.6** Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide ( $CO_2$ ), carbon monoxide and other organic compounds.



#### SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.

Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.

Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Non-applicable

Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LD50 oral	2290 mg/kg	Rat
CAS: 68439-57-6	LD50 dermal	6300 mg/kg	Rabbit
EC: 931-534-0	LC50 inhalation	Non-applicable	





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## ORION!

#### DM 100



#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
tetrasodium ethylene diamine tetraacetate	LD50 oral	1700 mg/kg	Rat
CAS: 64-02-8	LD50 dermal	Non-applicable	
EC: 200-573-9	LC50 inhalation	Non-applicable	

#### 11.2 Information on other hazards:

#### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

#### **Other information**

Non-applicable

#### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

#### Acute toxicity:

Identification		Concentration	Species	Genus
2-(2-butoxyethoxy)ethanol	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 112-34-5	EC50	2850 mg/L (24 h)	Daphnia magna	Crustacean
EC: 203-961-6	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Algae
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LC50	4,2 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 68439-57-6	EC50	4,53 mg/L (48 h)	Daphnia magna	Crustacean
EC: 931-534-0	EC50	5,2 mg/L (72 h)	Skeletonema costatum	Algae
sodium hydroxide	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
CAS: 1310-73-2	EC50	33 mg/L	Crangon crangon	Crustacean
EC: 215-185-5	EC50	Non-applicable		
tetrasodium ethylene diamine tetraacetate	LC50	121 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 64-02-8	EC50	140 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-573-9	EC50	Non-applicable		

#### **Chronic toxicity:**

Identification	Concentration		Species	Genus
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	NOEC	Non-applicable		
CAS: 68439-57-6 EC: 931-534-0	NOEC	6,3 mg/L	Daphnia magna	Crustacean
tetrasodium ethylene diamine tetraacetate	NOEC	25,7 mg/L	Danio rerio	Fish
CAS: 64-02-8 EC: 200-573-9	NOEC	25 mg/L	Daphnia magna	Crustacean

#### 12.2 Persistence and degradability:

#### Substance-specific information:

Identification	Degradability		Biodegradability	
2-(2-butoxyethoxy)ethanol	BOD5	0,25 g O2/g	Concentration	100 mg/L
CAS: 112-34-5	COD	2,08 g O2/g	Period	28 days
EC: 203-961-6	BOD5/COD	0,12	% Biodegradable	92 %
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 68439-57-6	COD	Non-applicable	Period	28 days
EC: 931-534-0	BOD5/COD	Non-applicable	% Biodegradable	96 %

#### **12.3** Bioaccumulative potential:

Substance-specific information:

#### DM 100



#### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Bioaccumulation potential		
2-(2-butoxyethoxy)ethanol	BCF	0.46		
CAS: 112-34-5	Pow Log	0.56		
EC: 203-961-6	Potential	Low		
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	BCF	71		
CAS: 68439-57-6	Pow Log	-1.3		
EC: 931-534-0	Potential	Moderate		
tetrasodium ethylene diamine tetraacetate	BCF	2		
CAS: 64-02-8	Pow Log	-13		
EC: 200-573-9	Potential	Low		

#### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-(2-butoxyethoxy)ethanol	Кос	48	Henry	7,2E-9 Pa·m <sup>3</sup> /mol
CAS: 112-34-5	Conclusion	Very High	Dry soil	No
EC: 203-961-6	Surface tension	3,395E-2 N/m (25 °C)	Moist soil	No
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Кос	1.6	Henry	6,7E-2 Pa·m³/mol
CAS: 68439-57-6	Conclusion	Very High	Dry soil	Yes
EC: 931-534-0	Surface tension	Non-applicable	Moist soil	Yes
tetrasodium ethylene diamine tetraacetate	Кос	1046	Henry	0E+0 Pa·m <sup>3</sup> /mol
CAS: 64-02-8	Conclusion	Low	Dry soil	No
EC: 200-573-9	Surface tension	Non-applicable	Moist soil	No

#### **12.5** Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

#### 12.7 Other adverse effects:

Not described

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### **13.1** Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

#### Type of waste (Regulation (EU) No 1357/2014):

HP8 Corrosive

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

#### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

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SECTION 14: TRANSPORT INFORMATION (continued)				
8	14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user Special regulations: Tunnel restriction code: Physico-Chemical properties: Limited quantities:	UN1760 CORROSIVE LIQUID, N.O.S. (sodium hydroxide) 8 8 11 No 274 E see section 9 1 L	
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	
Transport of dangerous goods by sea:				
With regard to IM	DG 40	-20:		
	14.2 14.3 14.4	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Marine pollutant:	UN1760 CORROSIVE LIQUID, N.O.S. (sodium hydroxide) 8 8 II No	
×.	14.6	Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	274 F-A, S-B see section 9 1 L SGG18	
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	
Transport of da	ngero	us goods by air:		
With regard to IA				
8	14.2 14.3 14.4 14.5	UN number or ID number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user	UN1760 CORROSIVE LIQUID, N.O.S. (sodium hydroxide) 8 8 II No	
		Physico-Chemical properties:	see section 9	
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable	

#### SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Non-applicable

legislation

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#### SECTION 15: REGULATORY INFORMATION (continued)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC)  $n^{0}648/2004$  on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

#### Seveso III:

#### Non-applicable

### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Contains more than 3 % of 2-(2-butoxyethoxy)ethanol by weight. 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: 'Do not use in paint spraying equipment'. Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

#### SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

#### Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.

H314: Causes severe skin burns and eye damage.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

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SECTION 16: OTHER INFORMATION (continued)
Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation.
Classification procedure: Eye Dam. 1: Calculation method Skin Corr. 1: Calculation method
Advice related to training:
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
Principal bibliographical sources:
http://echa.europa.eu http://eur-lex.europa.eu
Abbreviations and acronyms:
ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

Version: 4 (Replaced 3)

Revised: 06/03/2023