

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

### 1.1. Product identifier

Product name : SHELL DOBATEX DEGREASER HEAVY DUTY CONCENTRATE  
Product code : 09202015, BC504

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

Application : SU22 Professional use. For industrial or institutional use. PC35 Cleaning agent. Other vehicle (all types) cleaning and care products.

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

Supplier : Kemetyl Polska Sp. z o. o.  
Al. Jerozolimskie 146  
02-305 Warszawa, Poland  
Telephone : +48 22 822 5390  
E-mail : msds@kemetyl.com  
Website : www.kemetyl.pl

### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

PL - Telephone : +48 22 822 5390

(During office hours only)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Serious eye damage, category 1. Skin sensitization, category 1.  
(1272/2008/EC) Hazardous to the aquatic environment — Chronic category 3.

Human health hazards : Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.

Environmental hazards : Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

Label elements ((EU) 1272/2008):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
P261 Avoid breathing vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye protection.  
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
+P338



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P310	Immediately call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Amides, coco, N,N-bis(hydroxyethyl) ; 2-Octyl-2H-isothiazol-3-one ; Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine ; Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compds. with diethanolamine .

## 2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	10 - < 20	121617-08-1	939-464-2		
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compds. with diethanolamine	3 - < 10	84989-15-1	284-904-2		
Amides, coco, N,N-bis(hydroxyethyl)	3 - < 10	68603-42-9	271-657-0		
Glycerol	0,1 - < 1	56-81-5	200-289-5	MAC	
Bronopol	< 0,1	52-51-7	200-143-0		
2-Octyl-2H-isothiazol-3-one	0,0015 - < 0,1	26530-20-1	247-761-7		

Substance name	Hazard Class	H-phrases	Pictograms	
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	Skin Corr. 1C; Eye Dam. 1; Aquatic Chronic 3	H314; H318; H412	GHS05	H315 : C >= 1 % H314 C : C >= 50 %
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compds. with diethanolamine	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1	H302; H315; H318	GHS05; GHS07	
Amides, coco, N,N-bis(hydroxyethyl)	Skin Irrit. 2; Eye Dam. 1	H315; H318	GHS05	
Glycerol	-----	-----	-----	
Bronopol	Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1	H302; H312; H315; H318; H335; H400; H410	GHS05; GHS07; GHS09	M (acute) = 10 M (chronic) = 1



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2-Octyl-2H-isothiazol-3-one	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H301; H311; H314; H317; H318; H330; H400; H410; EUH071	GHS05; GHS06; GHS07; GHS09	M (acute) = 100 M (chronic) = 100 inhalation: ATE = 0,27 mg/L (dusts or mists) dermal: ATE = 311 mg/kg bw oral: ATE = 125 mg/kg bw H317 : C >= 0,0015 %
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Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

## SECTION 4 FIRST-AID MEASURES

### 4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Give condensed milk or a knob of butter. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : No specific effects and/or symptoms are known.
- Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : Strongly irritant. Irreversible effects on the eye/serious damage to eyes. May cause redness and severe pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

## SECTION 5 FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO<sub>2</sub>). Foam. Dry chemical. Water fog.
- Not suitable : Use of heavy stream of water may spread fire.

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

- Special exposure hazards : None known.
- Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.



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## 5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material.

### 6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.  
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

### 6.4. Reference to other sections

Reference to other sections : See also section 8.

## SECTION 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

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

Storage : Keep frost-free, in a cool, dry and well-ventilated place.  
Recommended packaging : Keep only in the original container.  
Non recommended packaging : Steel (except stainless steel).

### 7.3. Specific end use(s)

Use : Use only as directed. Do not mix with other products.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
Glycerol	GB	10	-	Mist	



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		10	-	Mist	MAC: EE, GR, ES, PL, BE, GB, FR.
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Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	Inhalation				4,1 mg/m <sup>3</sup>
	Dermal				5,29 mg/kg bw/day
Glycerol	Inhalation			56 mg/m <sup>3</sup>	
Bronopol	Inhalation			4,2 mg/m <sup>3</sup>	4,1 mg/m <sup>3</sup>
	Dermal		7 mg/kg bw		2,3 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	Inhalation				1,01 mg/m <sup>3</sup>
	Dermal				1,2 mg/kg bw/day
Glycerol	Oral				0,58 mg/kg bw/day
	Inhalation	33 mg/m <sup>3</sup>			
Bronopol	Oral				229 mg/kg bw/day
	Oral				0,35 mg/kg bw/day
	Inhalation			1,3 mg/m <sup>3</sup>	1,2 mg/m <sup>3</sup>
	Dermal				1,4 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	Water	0,268 mg/l	0,027 mg/l	
	Sediment	8,1 mg/kg		
	STP			7 mg/l
Glycerol	Soil			35 mg/kg
	Water	0,885 mg/l	0,0885 mg/l	
	Sediment	3,3 mg/kg	0,33 mg/kg	
	Intermittent water			8,85 mg/l
Bronopol	STP			1000 mg/l
	Soil			0,141 mg/kg
	Water	0,01 mg/l	0,001 mg/l	
	Sediment	0,041 mg/kg	0,003 mg/kg	
	STP			0,43 mg/l
2-Octyl-2H-isothiazol-3-one	Soil			0,5 mg/kg
	Water	0.002 mg/l	0.0002 mg/l	
	Sediment	0.047 mg/kg	0.004 mg/kg	
	Soil			0.008 mg/kg

## 8.2. Exposure controls

- Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
- Hygienic measures : When using do not eat, drink or smoke.



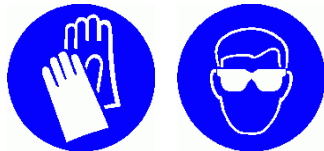
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Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: laminated film. Indication of permeation breakthrough time: not known.
- Respiratory protection : Take care of sufficient ventilation.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film.  $\pm 0,5$  mm. Indication of permeation breakthrough time: not known.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: Liquid.	
Colour	: Colourless.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: 7	
Solubility in water	: Soluble.	
Partition coefficient (n-octanol/water)	: Not applicable.	Contains surfactants. The O/W system emulsifies. Not measured. Not relevant for mixtures.
Flash point	: > 100 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 202 °C	
Boiling point/boiling range	: 100 °C	
Melting point/melting range	: 0 °C	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 400 mm <sup>2</sup> /sec	(1 mm <sup>2</sup> /sec = 1cSt)
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: 2300 Pa	
Relative vapour density	: Not relevant.	The solvent content of this product is less than 1%.
Relative density (20°C)	: 1 g/ml	
Particle characteristics	: Not applicable.	Liquid.

### 9.2. Other information

Other information : Not relevant.

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity : See sub-sections below.

### 10.2. Chemical stability



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Stability : Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

### 10.4. Conditions to avoid

Conditions to avoid : See section 7.

### 10.5. Incompatible materials

Materials to avoid : No specific recommendations.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product.

#### Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 28 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known.
- Corrosion/irritation : No specific effects and/or symptoms are known. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

#### Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

#### Eye contact

- Corrosion/irritation : Risk of serious damage to eyes.

#### Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Danger of aspiration is not expected. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.



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Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compounds with triethanolamine	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	Rat
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	Rat
	Skin irritation - estimate	Irritant	Read across	Rabbit
	Eye irritation - estimate	Severely irritant	Read across	Rabbit
	Genotoxicity - estimate	Not genotoxic	Read across	-----
	Skin sensitisation - estimate	Not sensitizing	Read across	Guinea pig
	NOAEL (oral) - estimate	85 mg/kg bw/d	Read across	Rat
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs., compds. with diethanolamine	LD50 (oral) - estimate	500 mg/kg bw	Read across	
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	NOAEL (oral) - estimate	48 mg/kg bw/d		Rat
	Genotoxicity - estimate	Not genotoxic	Read across	
	Eye irritation - estimate	Irritant	Read across	
	Skin irritation - estimate	Irritant	Read across	
	NOAEL (development) - estimate	Not teratogenic	Read across	
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	
	Skin sensitisation - estimate	Not sensitizing	Read across	
	Amides, coco, N,N-bis(hydroxyethyl)	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414
Genotoxicity - in vitro		Not genotoxic	OECD 473	
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
LD50 (oral)		> 10000 mg/kg bw	-----	Rat
NOAEL (oral)		750 mg/kg bw/d		Rat
NOEL (carcinogenicity, oral)		100 mg/kg bw/d		Rat
Eye irritation		Highly irritant	OECD 405	Rabbit
Skin sensitisation		Not sensitizing	OECD 406	Guinea pig
LD50 (dermal)		> 10000 mg/kg bw		Rat
Skin irritation		Highly irritant	OECD 404	Rabbit
2-Octyl-2H-isothiazol-3-one	LD50 (oral)	550 mg/kg bw	-----	Rat
	LD50 (dermal)	690 mg/kg bw		Rabbit
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Eye irritation	Severely irritant	-----	Rabbit
	LC50 (inhalation) - estimate	270 mg/m3	ATE	
	LD50 (dermal) - estimate	311 mg/kg bw	ATE	
	LD50 (oral) - estimate	125 mg/kg bw	ATE	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium





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## 11.2. Information on other hazards

- Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.
- Other information : Not applicable.

## SECTION 12 ECOLOGICAL INFORMATION

### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

- Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 4 mg/l. Calculated EC50 (waterflea): 18 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

- Persistence – degradability : May cause long-term adverse effects in the aquatic environment. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

### 12.3. Bioaccumulative potential

- Bioaccumulative potential : No specific information known.

### 12.4. Mobility in soil

- Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

### 12.5. Results of PBT and vPvB assessment

- PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

### 12.6. Endocrine disrupting properties

- Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

- Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
2-Octyl-2H-isothiazol-3-one	LC50 (fish)	0,14 mg/l	----	Pimephales promelas
	EC50 (waterflea)	0,18 mg/l	----	Daphnia magna
	Log P(ow)	2,9000		

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose of into the environment, drains, sewers or water courses. Avoid discharge of waste water arising from tank cleaning to the environment.



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European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.  
Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14 TRANSPORT INFORMATION

### 14.1. UN number or ID number

UN nr. : None.

### 14.2. UN proper shipping name

Transport name : Not regulated.

### 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

### 14.6. Special precautions for user

Other information : Country specific variations may apply.

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

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

## SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Regulation (EC) No 648/2004 (detergents). Directive 2008/98/EC (waste).

Ingredient declaration according to Regulation EC 648/2004:

Contains:	Concentration (%)
Anionic surfactants	15 - 30
Non-ionic surfactants	< 5
Perfumes, Limonene, 2-Bromo-2-nitropropane-1,3-diol, Octylisothiazolinone.	

### 15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

## SECTION 16 OTHER INFORMATION



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## 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be used (but not necessarily are used) in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2	: Calculation method.
Eye Dam. 1	: Calculation method.
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 3	: Calculation method.

Full text of hazard classes mentioned in section 3:

Acute Tox. 3	: Acute toxicity, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Corr. 1A/B/C	: Skin corrosive, category 1A/B/C.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Dam. 1	: Serious eye damage, category 1.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
STOT SE 3	: Specific target organ toxicity after single exposure, category 3.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.



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According to Regulation (EU) No 2020/878

Aquatic Chronic 3 : Hazardous to the aquatic environment — Chronic category 3.  
Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H330 Fatal if inhaled.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

Advice on any training appropriate for workers: none.

Country / Language code : EC / EN  
Number format : "," used as decimal separator.

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End of safety data sheet.

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