According to 1907/2006/EC (REACH), 2015/830/EU

Chemiprint - CHEMICLEAN BLUE 5041010

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

1.1 Product identifier: Chemiprint - CHEMICLEAN BLUE

5041010

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

Relevant uses: Cleaner (pH > 9). For industrial user 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:

Chemiprint LLP 23 hamasger st

9906017 beit Shemesh - Israel Phone.: 972-2-9901880 -Fax: 972-2-9901899 info@chemiprint.com www.chemiprint.com

1.4 Emergency telephone number:

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. 1A: Skin corrosion, Category 1A, H314

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Skin Corr. 1A: 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/face protection

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

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

P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Substances that contribute to the classification

Sodium metasilicate pentahydrate; Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs; Alcohols, C12-13, branched and linear, ethoxylated (> 5 - < 15 EO)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous solution based on complexing agents, alkalis and dispersants.

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

Components:

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

	Identification		Chemical name/Classification	Concentration	
	10213-79-3	Sodium metasilicate pentahydrate ¹ Self-classified			
Index:	Non-applicable Non-applicable 01-2119449811-37-XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	2.5 - <10 %	
	111-76-2 203-905-0	2-butoxyethanol ¹	ATP CLP00		
Index:	203-905-0 603-014-00-0 01-2119475108-36-XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	2.5 - <10 %	
	85536-14-7	Benzenesulfonic acid	, 4-C10-13-sec-alkyl derivs ¹ Self-classified		
Index:	EC: 287-494-3 Index: Non-applicable REACH: 01-2119490234-40-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Oanger	1 - <2.5 %	
	1300-72-7	Sodium xylenesulphonate ¹ Self-classified			
Index:	215-090-9 Non-applicable 01-2119513350-56-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	1 - <2.5 %	
	160901-19-9	Alcohols, C12-13, bra	anched and linear, ethoxylated (> 5 - < 15 EO) ¹ Self-classified		
Index:	500-457-0 Non-applicable 01-2119490233-42-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	1 - <2.5 %	
	1643-20-5 216-700-6 : Non-applicable H: 01-2120068065-58-XXXX	Dodecyldimethylami	ne oxide ¹ Self-classified		
Index:		Regulation 1272/2008	Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<1 %	

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

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 is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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.

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

Non-applicable

^{**} Changes with regards to the previous version

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SECTION 5: FIREFIGHTING MEASURES

5.1 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. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

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:

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.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground 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.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

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 to prevent ergonomic and toxicological risks

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 storage

Minimum Temp.: 5 °C

Maximum Temp.: 40 °C

Maximum time: 12 Months

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SECTION 7: HANDLING AND STORAGE (continued)

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 work environment

Identification Environmental limits			
2-butoxyethanol	IOELV (8h)	20 ppm	98 mg/m ³
CAS: 111-76-2	IOELV (STEL)	50 ppm	246 mg/m ³
EC: 203-905-0	Year	2017	

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Sodium metasilicate pentahydrate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 10213-79-3	Dermal	Non-applicable	Non-applicable	1,49 mg/kg	Non-applicable
EC: Non-applicable	Inhalation	Non-applicable	Non-applicable	6,22 mg/m ³	Non-applicable
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	663 mg/m ³	246 mg/m ³	98 mg/m ³	Non-applicable
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 85536-14-7	Dermal	Non-applicable	Non-applicable	170 mg/kg	Non-applicable
EC: 287-494-3	Inhalation	Non-applicable	Non-applicable	12 mg/m ³	12 mg/m ³
Sodium xylenesulphonate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1300-72-7	Dermal	Non-applicable	Non-applicable	7,6 mg/kg	Non-applicable
EC: 215-090-9	Inhalation	Non-applicable	Non-applicable	53,6 mg/m ³	Non-applicable
Alcohols, C12-13, branched and linear, ethoxylated (> 5 - < 15 EO)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 160901-19-9	Dermal	Non-applicable	Non-applicable	2080 mg/kg	Non-applicable
EC: 500-457-0	Inhalation	Non-applicable	Non-applicable	294 mg/m ³	Non-applicable

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Sodium metasilicate pentahydrate	Oral	Non-applicable	Non-applicable	0,74 mg/kg	Non-applicable
CAS: 10213-79-3	Dermal	Non-applicable	Non-applicable	0,74 mg/kg	Non-applicable
EC: Non-applicable	Inhalation	Non-applicable	Non-applicable	1,55 mg/m ³	Non-applicable
2-butoxyethanol	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applicable
CAS: 111-76-2	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	426 mg/m ³	123 mg/m ³	49 mg/m ³	Non-applicable
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	Oral	Non-applicable	Non-applicable	0,85 mg/kg	Non-applicable
CAS: 85536-14-7	Dermal	Non-applicable	Non-applicable	85 mg/kg	Non-applicable
EC: 287-494-3	Inhalation	Non-applicable	Non-applicable	3 mg/m ³	3 mg/m ³
Sodium xylenesulphonate	Oral	Non-applicable	Non-applicable	3,8 mg/kg	Non-applicable
CAS: 1300-72-7	Dermal	Non-applicable	Non-applicable	3,8 mg/kg	Non-applicable
EC: 215-090-9	Inhalation	Non-applicable	Non-applicable	13,2 mg/m ³	Non-applicable
Alcohols, C12-13, branched and linear, ethoxylated (> 5 - < 15 EO)	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 160901-19-9	Dermal	Non-applicable	Non-applicable	1250 mg/kg	Non-applicable
EC: 500-457-0	Inhalation	Non-applicable	Non-applicable	87 mg/m³	Non-applicable

PNEC:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Sodium metasilicate pentahydrate	STP	1000 mg/L	Fresh water	7,5 mg/L
CAS: 10213-79-3	Soil	Non-applicable	Marine water	1 mg/L
EC: Non-applicable	Intermittent	7,5 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
2-butoxyethanol	STP	463 mg/L	Fresh water	8,8 mg/L
CAS: 111-76-2	Soil	3,13 mg/kg	Marine water	0,88 mg/L
EC: 203-905-0	Intermittent	9,1 mg/L	Sediment (Fresh water)	34,6 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	Non-applicable
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	STP	3,43 mg/L	Fresh water	0,287 mg/L
CAS: 85536-14-7	Soil	35 mg/kg	Marine water	0,0287 mg/L
EC: 287-494-3	Intermittent	0,0167 mg/L	Sediment (Fresh water)	0,287 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,287 mg/kg
Sodium xylenesulphonate	STP	100 mg/L	Fresh water	0,23 mg/L
CAS: 1300-72-7	Soil	Non-applicable	Marine water	Non-applicable
EC: 215-090-9	Intermittent	2,3 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
Alcohols, C12-13, branched and linear, ethoxylated (> 5 - < 15 EO)	STP	10000 mg/L	Fresh water	0,022 mg/L
CAS: 160901-19-9	Soil	1 mg/kg	Marine water	0,022 mg/L
EC: 500-457-0	Intermittent	0,00282 mg/L	Sediment (Fresh water)	5,91 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	5,91 mg/kg

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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
Mandatory hand protection	NON-disposable chemical protective gloves	CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

[&]quot;As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face mask	CATII	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
D 1				

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

F.- Additional emergency measures

I	Emergency measure	Standards	Emergency measure	Standards
	+	ANSI Z358-1 ISO 3864-1:2002	⊢	DIN 12 899 ISO 3864-1:2002
L	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

Liquid

Volatile organic compounds:

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

V.O.C. (Supply): 3 % weight

V.O.C. density at 20 °C: 31,86 kg/m³ (31,86 g/L)

Average carbon number: 6

Average molecular weight: 118,2 g/mol

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:

Appearance: Transparent

Colour: Blue

Odour: Characteristic

Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 102 °C
Vapour pressure at 20 °C: 2335 Pa

Vapour pressure at 50 °C: 12304 Pa (12 kPa)
Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1061 kg/m³ Relative density at 20 °C: 1,05 - 1,1 Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * Concentration: Non-applicable * pH: 11 - 12 at 100 % Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * *Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Solubility properties: Water-soluble

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 238 °C

Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

Explosive:

Lower explosive limit:

Upper explosive limit:

Non-applicable *

Non-applicable *

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

*Not relevant due to the nature of the product, not providing information 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 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:

ſ	Acids	Water	Combustive materials	Combustible materials	Others	
I	Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases	

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 (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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 \cdot

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:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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. However, it contains substances classified as dangerous 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 dangerous for the effects mentioned. For more information see section 3.
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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 dangerous 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 dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous 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. However, it contains substances classified as dangerous for inhalation. 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 dangerous 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 dangerous 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 dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification Acute toxicity		Genus	
2-butoxyethanol	LD50 oral	1414 mg/kg	Rat
CAS: 111-76-2	LD50 dermal	841 mg/kg	Rat
EC: 203-905-0	LC50 inhalation	11 mg/L (4 h)	Rat
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	LD50 oral	1219 mg/kg	Rat
CAS: 85536-14-7	LD50 dermal	Non-applicable	
EC: 287-494-3	LC50 inhalation	Non-applicable	
Sodium xylenesulphonate	LD50 oral	7200 mg/kg	Rat
CAS: 1300-72-7	LD50 dermal	Non-applicable	
EC: 215-090-9	LC50 inhalation	Non-applicable	
Dodecyldimethylamine oxide	LD50 oral	2700 mg/kg	Rat
CAS: 1643-20-5	LD50 dermal	Non-applicable	
EC: 216-700-6	LC50 inhalation	Non-applicable	

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SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 111-76-2		1815 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	LC50	5 mg/L (48 h)	Leuciscus idus	Fish
CAS: 85536-14-7	EC50	5.9 mg/L (24 h)	Daphnia magna	Crustacean
EC: 287-494-3		14 mg/L (72 h)	Scenedesmus subspicatus	Algae
Alcohols, C12-13, branched and linear, ethoxylated (> 5 - < 15 EO)	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 160901-19-9	EC50	10 - 100 mg/L		Crustacean
EC: 500-457-0	EC50	10 - 100 mg/L		Algae
Dodecyldimethylamine oxide	LC50	Non-applicable		
CAS: 1643-20-5	EC50	3.1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 216-700-6	EC50	0.19 mg/L (72 h)	N/A	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
2-butoxyethanol	BOD5	0.71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days
EC: 203-905-0	BOD5/COD	0.32	% Biodegradable	96 %
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 85536-14-7	COD	Non-applicable	Period	28 days
EC: 287-494-3	BOD5/COD	Non-applicable	% Biodegradable	94 %
Dodecyldimethylamine oxide	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 1643-20-5	COD	Non-applicable	Period	28 days
EC: 216-700-6	BOD5/COD	Non-applicable	% Biodegradable	52 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential		
2-butoxyethanol	BCF	3	
CAS: 111-76-2	Pow Log	0.83	
EC: 203-905-0	Potential	Low	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	BCF		
CAS: 85536-14-7	Pow Log	2	
EC: 287-494-3	Potential		
Dodecyldimethylamine oxide	BCF	1	
CAS: 1643-20-5	Pow Log	4.67	
EC: 216-700-6	Potential	Low	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-butoxyethanol	Koc	8	Henry	1,621E-1 Pa·m³/mol
CAS: 111-76-2	Conclusion	Very High	Dry soil	No
EC: 203-905-0	Surface tension	2,729E-2 N/m (25 °C)	Moist soil	Yes
Dodecyldimethylamine oxide	Koc	5.5	Henry	6,687E-6 Pa·m³/mol
CAS: 1643-20-5	Conclusion	Very High	Dry soil	No
EC: 216-700-6	Surface tension	Non-applicable	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 15*	Alkalines	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. We do not recommended disposal down the drain. 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 2017 and RID 2017:



14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium metasilicate pentahydrate)

14.3 Transport hazard class(es): Labels: 8

14.4 Packing group: ΙΙ 14.5 Environmental hazards: Nο

14.6 Special precautions for user

274 Special regulations: Tunnel restriction code: F

Physico-Chemical properties: see section 9 Limited quantities:

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium metasilicate pentahydrate)

14.3 Transport hazard class(es): Labels: 14.4 Packing group: Π No 14.5 Environmental hazards:

14.6 Special precautions for user

Special regulations: 274 EmS Codes: F-A, S-B Physico-Chemical properties: see section 9 Limited quantities: 1 I

14.7 Transport in bulk according

to Annex II of Marpol and the IBC Code:

Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2017:

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According to 1907/2006/EC (REACH), 2015/830/EU

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number: UN1760

14.2 UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium metasilicate pentahydrate)

14.3 Transport hazard class(es): 8 Labels: 8

14.4 Packing group: II **14.5 Environmental hazards:** No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **Transport in bulk according** Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one.

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

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) $n^{o}648/2004$ 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.

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

Non-applicable

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:

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 (Regulation (EC) No 2015/830)

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

Content of the 3rd section presenting modifications (SECTION 3):

· Dodecyldimethylamine oxide (1643-20-5): REACH Number

Texts of the legislative phrases mentioned in section 2:

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SECTION 16: OTHER INFORMATION (continued)

H314: Causes severe skin burns and eye damage

H318: Causes serious 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:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects

Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Met. Corr. 1: H290 - May be corrosive to metals

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

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H335 - May cause respiratory irritation

Classification procedure:

Skin Corr. 1A: Calculation method Eye Dam. 1: Calculation method **Advice related to training:**

Minimal 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: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol—water partition coefficient Koc: Partition coefficient of organic carbon

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.

- END OF SAFETY DATA SHEET
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