

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

1.1 Product identifier: Pristine G60031

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

Relevant uses: Cleaner. For professional user/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:

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway Tel: 091-794722 Fax: 091-794738 email: services@hygeia.ie

1.4 Emergency telephone number:

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

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 Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation Skin Irrit. 2: H315 - Causes skin irritation

Precautionary statements:

P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection P302+P352: IF ON SKIN: Wash with plenty of water P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists: Get medical advice/attention P362: Take off contaminated clothing

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: Miscellaneous products

Components:

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

** Changes with regards to the previous version

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



Pristine G60031

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

Identification		Chemical name/Classification		Concentra	
CAS: 85480-55-3	Benzenesulfonic acid	d, mono-C10-13-alkyl derivs., compds. with ethanolamine ¹	Self-classified		
EC: 287-335-8 Index: Non-applicable REACH: 01-2119905842-39-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2	: H315 - Danger	10 - <20	
CAS: 141-43-5 EC: 205-483-3	2-aminoethanol 1	aminoethanol 1		3 - <5	
Index: 603-030-00-8 REACH:01-2119486455-28-XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Skin Corr. 1B: H314 - Danger		3 - <5 %	
CAS: 34590-94-8 EC: 252-104-2	Dipropylene Glycol N	Methyl Ether ²	Not classified	3 - <5	
Index: Non-applicable REACH:01-2119450011-60-XXXX	Regulation 1272/2008				
CAS: 3794-83-0 EC: 223-267-7	tetrasodium (1-hydr	oxyethylidene)bisphosphonate ¹	Self-classified	1 - <3	
Index: Non-applicable REACH: 01-2119647955-23-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning			
CAS: 68131-39-5 EC: 500-195-7	Alcohols, C12-15, et	hoxylated (C12-15PARETH-7) ¹	Self-classified	1-<3	
Index: Non-applicable REACH: 01-2119488720-33-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger]	

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830 ² Substance with a Union workplace exposure limit

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

Other information:

Identification	Specific concentration limit
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	% (w/w) >=5: STOT SE 3 - H335
tetrasodium (1-hydroxyethylidene)bisphosphonate CAS: 3794-83-0 EC: 223-267-7	% (w/w) >=30: Eye Irrit. 2 - H319

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, 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:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

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



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:

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:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

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



SECTION 7: HANDLING AND STORAGE (continued)

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.: 0 °C

Maximum Temp.: 25 °C

Maximum time: 24

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment (EH40/2005 Workplace exposure limits):

Identification	Environmental limits			
Dipropylene Glycol Methyl Ether	WEL (8h)	50 ppm	308 mg/m ³	
CAS: 34590-94-8	WEL (15 min)			
EC: 252-104-2	Year	2017		
2-aminoethanol	WEL (8h)	1 ppm	2.5 mg/m ³	
CAS: 141-43-5	WEL (15 min)	3 ppm	7.6 mg/m ³	
EC: 205-483-3	Year	2017		

DNEL (Workers):

		Short e	exposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 85480-55-3	Dermal	Non-applicable	Non-applicable	170 mg/kg	Non-applicable
EC: 287-335-8	Inhalation	Non-applicable	Non-applicable	12 mg/m ³	12 mg/m ³
2-aminoethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 141-43-5	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 205-483-3	Inhalation	Non-applicable	Non-applicable	Non-applicable	3.3 mg/m ³
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	65 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	310 mg/m ³	Non-applicable
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68131-39-5	Dermal	Non-applicable	Non-applicable	2080 mg/kg	Non-applicable
EC: 500-195-7	Inhalation	Non-applicable	Non-applicable	294 mg/m ³	Non-applicable

DNEL (Generalpopulation):		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Oral	Non-applicable	Non-applicable	0.85 mg/kg	Non-applicable
CAS: 85480-55-3	Dermal	Non-applicable	Non-applicable	85 mg/kg	Non-applicable
EC: 287-335-8	Inhalation	Non-applicable	Non-applicable	3 mg/m ³	3 mg/m ³
2-aminoethanol	Oral	Non-applicable	Non-applicable	3.75 mg/kg	Non-applicable
CAS: 141-43-5	Dermal	Non-applicable	Non-applicable	0.24 mg/kg	Non-applicable
EC: 205-483-3	Inhalation	Non-applicable	Non-applicable	Non-applicable	2 mg/m ³



		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	1.67 mg/kg	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	37.2 mg/m ³	Non-applicable
tetrasodium (1-hydroxyethylidene)bisphosphonate	Oral	6.5 mg/kg	Non-applicable	6.5 mg/kg	Non-applicable
CAS: 3794-83-0	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 223-267-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 68131-39-5	Dermal	Non-applicable	Non-applicable	1250 mg/kg	Non-applicable
EC: 500-195-7	Inhalation	Non-applicable	Non-applicable	87 mg/m ³	Non-applicable

PNEC:

Identification				
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	STP	3.43 mg/L	Fresh water	0.268 mg/L
CAS: 85480-55-3	Soil	35 mg/kg	Marine water	0.0268 mg/L
EC: 287-335-8	Intermittent	0.0167 mg/L	Sediment (Fresh water)	8.1 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	8.1 mg/kg
2-aminoethanol	STP	100 mg/L	Fresh water	0.085 mg/L
CAS: 141-43-5	Soil	0.035 mg/kg	Marine water	0.0085 mg/L
EC: 205-483-3	Intermittent	0.025 mg/L	Sediment (Fresh water)	0.425 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.0425 mg/kg
Dipropylene Glycol Methyl Ether	STP	4168 mg/L	Fresh water	19 mg/L
CAS: 34590-94-8	Soil	2.74 mg/kg	Marine water	1.9 mg/L
EC: 252-104-2	Intermittent	190 mg/L	Sediment (Fresh water)	70.2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7.02 mg/kg
tetrasodium (1-hydroxyethylidene)bisphosphonate	STP	580 mg/L	Fresh water	0.134 mg/L
CAS: 3794-83-0	Soil	41 mg/kg	Marine water	0.014 mg/L
EC: 223-267-7	Intermittent	Non-applicable	Sediment (Fresh water)	59 mg/kg
	Oral	12000 g/kg	Sediment (Marine water)	5.9 mg/kg
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	STP	10000 mg/L	Fresh water	0.0446 mg/L
CAS: 68131-39-5	Soil	1 mg/kg	Marine water	0.0446 mg/L
EC: 500-195-7	Intermittent	0.0446 mg/L	Sediment (Fresh water)	41.3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	41.3 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	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.				
	As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with otal reliability and has therefore to be checked prior to the application"							



D O	Dcular and facial p	protection				
_	Pictogram	PPE	Labelling	CEN Standard		Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2012		daily and disinfect periodically according t anufacturer´s instructions. Use if there is risk of splashing.
E B	Body protection					
	Pictogram	PPE	Labelling	CEN Standard		Remarks
		Work clothing	CATI		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 regulation ISO 6529:2001, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994.
		Anti-slip work shoes		EN ISO 20347:2012	perio	ce before any evidence of deterioration. Fr ds of prolonged exposure to the product for professional/industrial users CE III is mended, in accordance with the regulation in EN ISO 20345 y EN 13832-1
F A	dditional emerge	ency measures				
_	Emergency mea	isure S	tandards	Emergency meas	ure	Standards
			ISI Z358-1			DIN 12 899
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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Product description:	
	Density at 20 °C:	1020 - 1040 kg/m³ (ISO 649-2)
	Relative density at 20 °C:	1.02 - 1.04
	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:	10 - 11.5 at 100 % (ASTM D3838-05)
	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:	Miscible
	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:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.

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0101	ION IU: STABILITY AN									
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 th	e conditions of storage, h	andling and use.							
10.3	Possibility of hazardous	s reactions:								
	Under the specified condit	ions, hazardous reactions	that lead to excessive ter	nperatures or pressure ar	re not expected.					
10.4	Conditions to avoid:									
	Applicable for hand ho an	n storade at room temper	ature							
	Applicable for handling an Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity					
				Sunlight Not applicable	Humidity Not applicable					
	Shock and friction Not applicable	Contact with air Not applicable	Increase in temperature	5	,					
10.5	Shock and friction	Contact with air Not applicable	Increase in temperature Not applicable	Not applicable	,					
10.5	Shock and friction Not applicable	Contact with air Not applicable	Increase in temperature	5	,					
10.5]	Shock and friction Not applicable	Contact with air Not applicable	Increase in temperature Not applicable	Not applicable	Not applicable					



SECTION 10: STABILITY AND REACTIVITY (continued)

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 .

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- 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: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces 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, as it does not contain substances classified as dangerous 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 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:

** Changes with regards to the previous version



SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Study conducted in February 2013 by Harlan Laboratories, study number 41300559 on equivalent product. Product does not meet the classification criteria as Eye Damage Category 1.

Product classified as Eye Irritant Category 2 based on results.

For further information contact Amega Sciences Plc.

Specific toxicology information on the substances:

Identification Acute toxicity		Genus	
Dipropylene Glycol Methyl Ether	LD50 oral	5180 mg/kg	Rat
CAS: 34590-94-8	LD50 dermal	>2000 mg/kg	
EC: 252-104-2	LC50 inhalation	>20 mg/L (4 h)	
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	LD50 oral	500 mg/kg (ATEi)	
CAS: 68131-39-5	LD50 dermal	>2000 mg/kg	
EC: 500-195-7	LC50 inhalation	>20 mg/L (4 h)	
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	LD50 oral	1570 mg/kg	Rat
CAS: 85480-55-3	LD50 dermal	2504 mg/kg	Rabbit
EC: 287-335-8	LC50 inhalation	>5 mg/L (4 h)	
2-aminoethanol	LD50 oral	1515 mg/kg	Rat
CAS: 141-43-5	LD50 dermal	2504 mg/kg	Rabbit
EC: 205-483-3	LC50 inhalation	11 mg/L (4 h)	Rat
tetrasodium (1-hydroxyethylidene)bisphosphonate	LD50 oral	1219 mg/kg	Rat
CAS: 3794-83-0	LD50 dermal	>2000 mg/kg	
EC: 223-267-7	LC50 inhalation	>5 mg/L (4 h)	

** Changes with regards to the previous version

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
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	LC50	1.67 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 85480-55-3	EC50	Non-applicable		
EC: 287-335-8	EC50	Non-applicable		
2-aminoethanol	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 141-43-5	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-483-3	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae
Dipropylene Glycol Methyl Ether	LC50	10000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 34590-94-8	EC50	1919 mg/L (48 h)	Daphnia magna	Crustacean
EC: 252-104-2	EC50	Non-applicable		
Alcohols, C12-15, ethoxylated (C12-15 PARETH-7)	LC50	10 - 100 mg/L (96 h)		Fish
CAS: 68131-39-5	EC50	10 - 100 mg/L (48 h)		Crustacean
EC: 500-195-7	EC50	10 - 100 mg/L		Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 85480-55-3	COD	Non-applicable	Period	21 days
EC: 287-335-8	BOD5/COD	Non-applicable	% Biodegradable	90 %
2-aminoethanol	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 141-43-5	COD	Non-applicable	Period	21 days
EC: 205-483-3	BOD5/COD	Non-applicable	% Biodegradable	90 %

** Changes with regards to the previous version



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

Pristine 08070

SECTION 12: ECOLOGICAL INFORMATION ** (continued) Identification Degradability Biodegradability BOD5 Dipropylene Glycol Methyl Ether Non-applicable Concentration Non-applicable COD 0.00202 g O2/g 28 days Period CAS: 34590-94-8 BOD5/COD EC: 252-104-2 Non-applicable % Biodegradable 73 % 12.3 Bioaccumulative potential: Bioaccumulation potential Identification BCF 87 Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine CAS: 85480-55-3 Pow Log EC: 287-335-8 Potential Moderate BCF З 2-aminoethanol -1.31 Pow Log CAS: 141-43-5 EC: 205-483-3 Potential Low BCF Dipropylene Glycol Methyl Ether 1

CAS: 34590-94-8 EC: 252-104-2

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Кос	1.16	Henry	Non-applicable
CAS: 85480-55-3	Conclusion	Very High	Dry soil	Non-applicable
EC: 287-335-8	Surface tension	Non-applicable	Moist soil	Non-applicable
2-aminoethanol	Кос	0.27	Henry	3.7E-5 Pa·m ³ /mol
CAS: 141-43-5	Conclusion	Very High	Dry soil	No
EC: 205-483-3	Surface tension	5.025E-2 N/m (25 °C)	Moist soil	No

Pow Log

Potential

-0.06

Low

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 29* Detergents containing dangerous substances		Dangerous

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

HP4 Irritant — skin irritation and eye damage

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, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) 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:



SECTION 14: TRANSPORT INFORMATION (continued) With regard to ADR 2017 and RID 2017: 14.1 UN number: Non-applicable 14.2 UN proper shipping name: Non-applicable 14.3 Transport hazard class(es): Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: No 14.5 Environmental nazards: No 14.5 Special precautions for user Non-applicable Special precaution structure Non-applicable Non-applicable Non-applicable 14.7 Transport in bulk according to Mon-applicable 14.3 UN more shipping name: Non-applicable 14.3 UN more shipping name: Non-applicable 14.3 UN proper shipping name: Non-applicable 14.4 Packing group: Non-applicable 14.5 Environmental hazards: No 14.6 Special precautions for user Non-applicable 14.7 Transport in bulk according to Ann-applicable Non-applicable 14.7 Transport in bulk according to Ann-applicable Non-appl			
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SECTION 15: REGULATORY INFORMATION

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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

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SCIENCES



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) nº648/2004 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.

Labelling for contents:

Component	Concentration interval
Non-ionic surfactants	% (w/w) < 5
Anionic surfactants	5 <= % (w/w) < 15
Phosphonates	% (w/w) < 5

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 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits The Waste Regulations 2011, 2011 No. 988

COSHH-SR24 Storing chemical products (small scale).

COSHH-SR2 Diluting chemical concentrates.

COSHH-SR4 Manual cleaning and disinfecting surfaces.

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
- Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine (85480-55-3)
- Removed substances

Benzenesulfonic acid, mono-C10-16-alkyl derivs., compds. with ethanolamine (68910-32-7)

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H319: Causes serious eye irritation

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 Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled 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 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage Skin Irrit. 2: H315 - Causes skin irritation 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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