Safety data sheet

This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation



## Alu Max



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: Alu Max Other means of identification: Non-applicable 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: ProElite Sp. z o.o. Leśników Polskich 65K 98-100 Łask - Polska Phone.: 436712375 msds@proelite.pl www.proelite.pl 1.4 Emergency telephone number: The correct telephone number for your country

# SECTION 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture:

Product classified regardless of its extreme pH.

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

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

Acute Tox. 2: Acute toxicity on contact with skin, Category 2, H310 Acute Tox. 3: Acute toxicity, Category 3, H301+H331 Eye Dam. 1: Serious eye damage, Category 1, H318 Met. Corr. 1: Corrosive to metals, Category 1, H290 Skin Corr. 1A: Skin corrosion, Category 1A, H314 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

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

Danger



#### Hazard statements:

Acute Tox. 2: H310 - Fatal in contact with skin. Acute Tox. 3: H301+H331 - Toxic if swallowed or if inhaled. Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation.

#### Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Substances that contribute to the classification

Hydrochloric acid ; hydrogen fluoride; Isotridecanol, ethoxylated

UFI: 0S00-H02S-D00N-SQCC

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



## Alu Max



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

#### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

Chemical description: Acid-based mixture of inorganic substances

#### Components:

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

	Identification Chemical name/Classification			Concentration	
CAS: Non-applicable		Hydrochloric acid (1)		Self-classified	
EC: Index: REACH	231-595-7 017-002-01-X :01-2119484862-27- XXXX	Regulation 1272/2008	Met. Corr. 1: H290; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	(1)	10 - <25 %
CAS:	7664-39-3	hydrogen fluoride <sup>(1)</sup>		ATP CLP00	
Index: ( REACH: (	231-634-8 009-003-00-1 :01-2119458860-33- XXXX	Regulation 1272/2008	Acute Tox. 1: H310; Acute Tox. 2: H300+H330; Skin Corr. 1A: H314 - Danger	$\diamond$	5 - <10 %
CAS:	9043-30-5 500-027-2	Isotridecanol, ethoxylate	ed <sup>(1)</sup>	Self-classified	
Index:	Non-applicable Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	$\langle ! \rangle \langle \! \! \! \! \rangle \rangle$	5 - <10 %

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

To obtain more information on the hazards of the substances consult sections 11, 12 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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## 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.

Apply a 2.5% calcium gluconate solution for 15 minutes until the pain ceases; if this solution is not available, rinse with water.

## 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.

Apply a 1% calcium gluconate solution for 10 minutes in physiological saline until the pain ceases; if this solution is not available, rinse with water.

#### By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Induce vomiting (ONLY IF PERSON IS CONSCIOUS! ) and then ingest large quantities of liquid to dilute the toxin. 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.

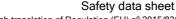
#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

### Suitable extinguishing media:









## SECTION 5: FIREFIGHTING MEASURES (continued)

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

### Unsuitable extinguishing media:

Non-applicable

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

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

#### 5.3 Advice for firefighters:

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

### Additional provisions:

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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)

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

#### A - Technical measures for storage

7.2

	.e.age
Minimum Temp.:	5 ºC
Maximum Temp.:	35 ºC
Maximum time:	24 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 workplace (European OEL, not country-specific legislation):

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

Identification	Occupa	ational exposure li	mits
hydrogen fluoride	IOELV (8h)	1,8 ppm	1,5 mg/m <sup>3</sup>
CAS: 7664-39-3 EC: 231-634-8	IOELV (STEL)	3 ppm	2,5 mg/m <sup>3</sup>

#### DNEL (Workers):

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Hydrochloric acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-595-7	Inhalation	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable	8 mg/m³
hydrogen fluoride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7664-39-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-634-8	Inhalation	2,5 mg/m³	2,5 mg/m <sup>3</sup>	1,5 mg/m <sup>3</sup>	0,0015 mg/m <sup>3</sup>

## DNEL (General population):

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Hydrochloric acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-595-7	Inhalation	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable	8 mg/m <sup>3</sup>
hydrogen fluoride	Oral	0,01 mg/kg	Non-applicable	0,01 mg/kg	Non-applicable
CAS: 7664-39-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-634-8	Inhalation	0,03 mg/m <sup>3</sup>	1,25 mg/m <sup>3</sup>	0,03 mg/m³	0,2 mg/m <sup>3</sup>

#### PNEC:

Identification				
hydrogen fluoride	STP	51 mg/L	Fresh water	0,9 mg/L
CAS: 7664-39-3	Soil	11 mg/kg	Marine water	0,9 mg/L
EC: 231-634-8	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable

## 8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional 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



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

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 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018

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

## D.- Ocular and facial protection

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

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

## F.- Additional emergency measures

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

## Environmental exposure controls:

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

# Volatile organic compounds:

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

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 ºC:	0 kg/m³ (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	:		
	For complete information see the product datasheet.			
	Appearance:			
	Physical state at 20 ºC:	Liquid		
	Appearance:	Fluid		
	Colour:	Red		
	Odour:	Characteristic		
	Odour threshold:	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)

# Volatility:

Boiling point at atmospheric pressure:   100 °C     Vapour pressure at 20 °C:   2550 Pa     Vapour pressure at at 20 °C:   1281.01 Pa (12.38 kPa)     Evaporation rate at 20 °C:   1124.4 kg/m³     Relative density at 20 °C:   1124.4 kg/m³     Relative density at 20 °C:   Non-applicable °     Kinematic viscosity at 20 °C:   Non-applicable °     Kinematic viscosity at 20 °C:   Non-applicable °     Kinematic viscosity at 20 °C:   Non-applicable °     Concentration:   Non-applicable °     PH:   1.5 - 2.5 (at 1 %)     Vapour density at 20 °C:   Non-applicable °     Solubility in water at 20 °C:   Non-applicable °     Solubility properties:   Completely miscible     Decomposition temperature:   Non-applicable °     Oxidising properties:   Non-applicable °     Explosive properties:   Non-applicable °     Autoignition temperature:   Non-applicable °     Autoignition tempera	voiaunty.	
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Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Completely miscibleSolubility properties:Completely miscibleDecomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Cxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Non-applicable *Flammability:Non-applicable *Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	pH:	1,5 - 2,5 (at 1 %)
Solubility in water at 20 °C:Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Non-applicable *Flammability:Non-applicable *Flammability:Non-applicable *Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Lower flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Vapour density at 20 ºC:	Non-applicable *
Solubility properties:Completely miscibleDecomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Planmability:Non-applicable *Flash Point:Non-applicable *Heat of combustion:Non-applicable *Planmability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *Non-applicable *Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Non-applicable *Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Solubility in water at 20 ºC:	
Melting point/freezing point:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Solubility properties:	Completely miscible
Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Flammability:Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Decomposition temperature:	Non-applicable *
Oxidising properties:Non-applicable *Flammability:Non Flammable (>60 °C)Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Melting point/freezing point:	Non-applicable *
Flammability:Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Explosive properties:	Non-applicable *
Flash Point:Non Flammable (>60 °C)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Oxidising properties:	Non-applicable *
Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Flammability:	
Flammability (solid, gas):Non-applicable *Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Flash Point:	Non Flammable (>60 °C)
Autoignition temperature:Non-applicable *Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Heat of combustion:	Non-applicable *
Lower flammability limit:Non-applicable *Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Flammability (solid, gas):	Non-applicable *
Upper flammability limit:Non-applicable *Explosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Surface tension at 20 °C:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Autoignition temperature:	Non-applicable *
Explosive:Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Surface tension at 20 °C:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Lower flammability limit:	Non-applicable *
Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Upper flammability limit:	Non-applicable *
Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Explosive:	
Other information:   Surface tension at 20 °C: Non-applicable *   Refraction index: Non-applicable *	Lower explosive limit:	Non-applicable *
Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable *	Upper explosive limit:	Non-applicable *
Refraction index: Non-applicable *	Other information:	
	Surface tension at 20 ºC:	Non-applicable *
*Not relevant due to the nature of the product, not providing information property of its hazards.	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing i	nformation property of its hazards.

SEC	TION 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:

9.2

Applicable for handling and storage at room temperature:



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This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation

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# ECTION 10: STABILITY AND REACTIVITY (continue)

CECHCA 10. CHABIELLE AND REACTIVITY (Continued)					
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
10.5 Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others
	Not applicable	Not applicable	Avoid direct impact	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

#### 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 : Can be fatal if consumed. For more information see section 2.
  - 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 : Inhalation after prolonged exposure may be lethal.
- 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: Can be fatal if the product is absorbed through the skin. For more information on the secondary effects of skin contact 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.
  - IARC: hydrogen fluoride (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:
  - Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- 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:



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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	A	cute toxicity	Genus
Hydrochloric acid	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: 231-595-7	LC50 inhalation	Non-applicable	
hydrogen fluoride	LD50 oral	5 mg/kg	Rat
CAS: 7664-39-3	LD50 dermal	5 mg/kg	Rat
EC: 231-634-8	LC50 inhalation	0,5 mg/L (4 h)	Rat
Isotridecanol, ethoxylated	LD50 oral	500 mg/kg (ATEi)	
CAS: 9043-30-5	LD50 dermal	>2000 mg/kg	
EC: 500-027-2	LC50 inhalation	Non-applicable	

# SECTION 12: ECOLOGICAL INFORMATION

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

#### 12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
hydrogen fluoride	LC50	925 mg/L (96 h)	Gambussia afinis	Fish
CAS: 7664-39-3	EC50	270 mg/L (48 h)	Daphnia sp.	Crustacean
EC: 231-634-8	EC50	Non-applicable		

## 12.2 Persistence and degradability:

Not available

#### 12.3 Bioaccumulative potential:

Not available

## 12.4 Mobility in soil:

Not available

# 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

## 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 14*	Acids	Dangerous

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

HP6 Acute Toxicity, 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







SECTION 14: TRANSF	POR	[INFORMATION (continued)	
Transport of dange			
With regard to ADF			
=			102022
A A	14.1	UN number:	UN2922
	14.2	UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid ; hydrogen fluoride)
8 6 7	14.3	Transport hazard class(es):	8
<b>*</b>		Labels:	8, 6.1
-	14.4	Packing group:	
	14.5		No
		Special precautions for user	
		Special regulations:	274
		Tunnel restriction code:	E
		Physico-Chemical properties:	see section 9
		Limited quantities:	1L
-	14.7	Transport in bulk according to	Non-applicable
		Annex II of Marpol and the IBC Code:	
Transport of dange	erous	goods by sea:	
With regard to IMD	G 39-	-18:	
1	14.1	UN number:	UN2922
	14.2	UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid ; hydrogen
			fluoride)
	14.3	Transport hazard class(es):	8
6		Labels:	8, 6.1
1	14.4	Packing group:	II
1	14.5	•	No
1	14.6	Special precautions for user	
		Special regulations:	274
		EmS Codes:	F-A, S-B
		Physico-Chemical properties:	see section 9
		Limited quantities:	1L
		Segregation group:	Non-applicable
1	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of dange	erous	goods by air:	
With regard to IAT	A/ICA	O 2021:	
	14.1	UN number:	UN2922
	14.2	UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrochloric acid ; hydrogen fluoride)
v v	14.3	Transport hazard class(es):	8
		Labels:	8, 6.1
1	14.4	Packing group:	II
1	14.5	Environmental hazards:	No
1	14.6		
		Physico-Chemical properties:	see section 9
1	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Hydrochloric acid (Product-type 2)



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## SECTION 15: REGULATORY INFORMATION (continued)

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

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

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

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) 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	5 <= % (w/w) < 15
Seveso III:	

Section	Description	Lower-tier requirements	Upper-tier requirements
H2	ACUTE TOXIC	50	200

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

Shall not be used in:

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

-tricks and jokes,

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

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

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

## Other legislation:

The product could be affected by sectorial legislation

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

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

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

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H290: May be corrosive to metals.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H310: Fatal in contact with skin.

H301+H331: Toxic if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

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

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

CLP Regulation (EC) No 1272/2008:

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SECTION 16: OTHER INFORMATION (continued)
Acute Tox. 1: H310 - Fatal in contact with skin. Acute Tox. 2: H300+H330 - Fatal if swallowed or if inhaled. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation.
Classification procedure:
Eye Dam. 1: Calculation method STOT SE 3: Calculation method Acute Tox. 2: Calculation method Acute Tox. 3: Calculation method Skin Corr. 1A: 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. <b>Principal bibliographical sources:</b>
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.