

Classification of the substance or mixture 2.1.

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Classification of the mixture in accordance with Regulation (EC) No 1272/2008
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The mixture is classified as dangerous.

Acute Tox. 2, H300 Acute Tox. 1, H310 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 3, H331

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Fatal if swallowed. Fatal in contact with skin. Toxic if inhaled Causes serious eye damage.

2.2. Label elements





Danger

Hazardous substances

Causes severe skin burns and eye damage.
Toxic if inhaled.
Fatal if swallowed or in contact with skin.



according to Regulation (EC) No 1907/2006 (REACH) as amended

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	ALU	ASTRONG			
Creation date	10th May 2012				
Revision date	25th March 2022 Version 2.0				
Precautionary state	ements				
P270	Do not eat, drink	or smoke when using this	product.		
P271	Use only outdoors or in a well-ventilated area.				
P280	Wear protective g	Wear protective gloves/protective clothing/eye protection/face protection.			
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.				
P303+P361+P353	IF ON SKIN (or ha	, , ,	all contaminated clothing. Rinse skin		
P305+P351+P338		cautiously with water for and easy to do. Continue	several minutes. Remove contact rinsing.		
P310	Immediately call a	POISON CENTER/doctor.			
P405	Store locked up.				

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 009-003-00-1 hy CAS: 7664-39-3 EC: 231-634-8 Registration number: 01-2119458860-33- XXXX	ydrofluoric acid 70%		Acute Tox. 2, H300, H330 Acute Tox. 1, H310 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1A, H314: $C \ge 7 \%$ Eye Irrit. 2, H319: 0,1 % $\le C < 1 \%$ Skin Corr. 1B, H314: 1 % $\le C < 7 \%$	1, 2

Notes

- 1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.



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		X BIRGING		
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If on skin

If product comes in contact with the skin, immediately remove all contaminated clothing and flush exposed area with large amounts of water. Do not use any alkalescent substances. Use gel containing calcium gluconate on burned skin, flush it with water and repeat the procedure for at least 15 minutes. If you don't have a gel containing calcium gluconate, then put some kind of material soaked in 10% solution of calcium gluconate on burned area and get medical attention.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT induce vomiting. Give lots of water to drink containing calcium gluconate/lactate. In case of diarrhea, make a solution of sodium sulphate (1 spoon per 0.25l of water) and immediately get medical attention. Don't give anything to unconscious person.

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

If inhaled

Toxic if inhaled

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

4.3.

Toxic if swallowed. May be fatal if swallowed and enters airways

Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature 7.3. Specific end use(s) not available

min 5 °C, max 35 °C

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

The mixture contains substances for which occupational exposure limits are set.

Euro	pean	Union
LUIO	pean	onion

Commission Directive 2000/39/EC Substance name (component) Туре Value OEL 8 hours 1,5 mg/m³ OEL 8 hours 1,8 ppm hydrofluoric acid 70% (CAS: 7664-39-3) 2,5 mg/m³ OEL 15 minutes **OEL 15 minutes** 3 ppm

DNEL

hydrofluoric acid 70%

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	2.5 mg/m ³	Systemic acute effects		SDS
Workers	Inhalation	1.5 mg/m ³	Systemic chronic effects		SDS
Consumers	Inhalation	0.03 mg/m ³	Systemic acute effects		SDS
Consumers	Inhalation	0.03 mg/m ³	Systemic chronic effects		SDS
Consumers	Oral	0.01 mg/kg bw/day	Systemic acute effects		SDS
Consumers	Oral	0.01 mg/kg bw/day	Systemic chronic effects		SDS
Workers	Inhalation	2.5 mg/m ³	Local acute effects		SDS
Workers	Inhalation	1.5 µg/l	Local chronic effects		SDS
Consumers	Inhalation	1.25 mg/m ³	Local acute effects		SDS
Consumers	Inhalation	0.2 mg/m ³	Local chronic effects		SDS

PNEC

hydrofluoric acid 70%

Route of exposure	Value	Determining method
Drinking water	0.9 mg/l	
Seawater	0.9 mg/l	
Water (intermittent release)	51 mg/l	
Soil (agricultural)	11 mg/kg	



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8.2. **Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. In case of full contact with the product: gloves from butyl rubber (0.7 mm thick). In case of splash contact: gloves from polychloroprene (0.65 mm thick)

Respiratory protection

self-contained breathing apparatus

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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Information on basic physical and chemical pro	operties
Physical state	liquid
Colour	colourless
Odour	Characteristic for materials used in production (acidio harsh)
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
рН	1 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Relative density	No data available
Form	colorless liquid

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions Unknown.



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10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Materials to avoid: glass, glaze, metals.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Fatal if swallowed. Fatal in contact with skin. Toxic if inhaled

hydrofluoric acid 70%

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
	LCL0	50 ppm	30 min	Human		SDS
Inhalation	LC50	4327 ppm	15 min	Guinea-pig (Cavia aperea f. porcellus)	R	SDS
Inhalation	LC50	18200 ppm	5 min	Rat (Rattus norvegicus)		SDS
Inhalation	LC50	280 mg/m ³	1 hour	Mouse		SDS

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.



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11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

hydrofluoric acid 70%

Parameter	Method	Value	Time of exposure	Species	Environme nt	Source
LC50		43 mg/l	96 hour	Algae (Selenastrum capricornutum)	Freshwater	SDS
LC50		81 mg/l	96 hour	Algae (Selenastrum capricornutum)	Salt water	SDS
NOEC		50 mg/l	7 day	Algae (Skeletonema costatum)	Freshwater	SDS
NOEC		50 mg/l	21 day	Algae (Skeletonema costatum)	Salt water	SDS
EC50		26 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	SDS
EC50		10.5 mg/l		Daphnia (Daphnia magna)	Salt water	SDS
NOEC		8.9 mg/l	21 day	Daphnia (Daphnia magna)	Freshwater	SDS
LC50		51 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		SDS
NOEC		4 mg/l	21 day	Fishes (Oncorhynchus mykiss)		SDS
NOEC	OECD 207	1200 mg/kg		Eisenia fetida		SDS
NOEC		800 mg/kg	126 day	Invertebrates (Porcellus scaber)		SDS
NOEC		106-3000 mg/kg	63 day	Invertebrates (Eisenia fetida)		SDS

12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

12.3. Bioaccumulative potential Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

SECH	10N 14: Transport Information		
14.1.	. UN number or ID number		
	UN 2922		
14.2.	. UN proper shipping name		
	CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid)		
14.3.			
	8 Corrosive substances		
14.4.	. Packing group		
	II - substances presenting medium danger		
14.5.			
	No		
14.6.	. Special precautions for user		
	Reference in the Sections 4 to 8.		
14.7.	. Maritime transport in bulk according to IMO instru	uments	
	not relevant		
	Additional information		
	Hazard identification No.		
	UN number 29	922	
	Safety signs 8+6	.1	

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.



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	n date n date	10th May 2012 25th March 2022	Version	2.0		
5.2.	Chemical safety as	sessment				
	For mixture:					
	A Chemical Safety As	ssessment has not been carri	ed out.			
	For the following substances, mixtures:					
	Hydrofluoric acid: the manufacturer has performed a chemical safety assessment					
ECTIO	ON 16: Other inform A list of standard r	nation isk phrases used in the sa	fety data sheet			
	H300	Fatal if swallowed				
	H310	Fatal in contact w				
	H314		n burns and eye damage			
	H318	Causes serious ey	e damage.			
	H319	Causes serious ey	e irritation.			
	H330	Fatal if inhaled.				
	H331	Toxic if inhaled.				
	Guidelines for safe	handling used in the safe	tv data sheet			
	P280	•	•	/eye protection/face protection.		
	P301+P330+P331		Rinse mouth. Do NOT ind			
				-		
	P303+P361+P353	with water or sho		v all contaminated clothing. Rinse skin		
	P305+P351+P338	IF IN EYES: Rinse	cautiously with water for	r several minutes. Remove contact		
			and easy to do. Continue			
	P310	Immediately call	POISON CENTER/doctor	r.		
	P270		or smoke when using this			
	P271		or in a well-ventilated a			
	P405	-	of in a well ventilated a	Ted.		
		Store locked up.				
	Other important in	formation about human be	alth protection			
	The product must no		roved by the manufactur	er/importer - used for purposes other t ealth protection regulations.		
	The product must no as per the Section 1.	ot be - unless specifically app . The user is responsible for a	roved by the manufactur dherence to all related he			
	The product must no as per the Section 1. Key to abbreviation	ot be - unless specifically app . The user is responsible for a ns and acronyms used in t	roved by the manufactur dherence to all related he he safety data sheet	ealth protection regulations.		
	The product must no as per the Section 1.	ot be - unless specifically app . The user is responsible for a ns and acronyms used in t	roved by the manufactur dherence to all related he he safety data sheet			
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	The product must no as per the Section 1. Key to abbreviation ADR BCF CAS CE50 CLP DNEL	ot be - unless specifically app The user is responsible for a ns and acronyms used in t European agreem road Bioconcentration Chemical Abstract Concentration of a Regulation (EC) N substance and mi Derived no-effect	roved by the manufactur dherence to all related he he safety data sheet ent concerning the intern Factor a substance when it is aff o 1272/2008 on classifica xtures level	ealth protection regulations. national carriage of dangerous goods by fected 50% of the population ation, labelling and packaging of		
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according to Regulation (EC) No 1907/2006 (REACH) as amended

ALUX STRONG

ALUX STRONG					
Creation date	10th May 2012				
Revision date	25th March 2022	Version	2.0		
PNEC	Predicted no-effe	ct concentration			
ppm	Parts per million				
REACH	Registration, Eva	luation, Authorisation and	Restriction of Chemicals		
RID	Agreement on th	e transport of dangerous g	oods by rail		
UE	European Union				
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations				
UVCB	Substances of un biological materia		ition, complex reaction products or		
vPvB	Very Persistent a	nd very Bioaccumulative			
WE	Identification cod	e for each substance listed	d in EINECS		
Acute Tox.	Acute toxicity				
Eye Dam.	Serious eye dama	age			
Eye Irrit.	Eye irritation				
Skin Corr.	Skin corrosion				

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

General update

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.