



SAFETY DATA SHEET

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

ALUX GT

Creation date 18th May 2012
Revision date 25th March 2022 Version 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier** ALUX GT
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Ready-to-use preparation for cleaning heavily soiled aluminum wheels. Warning! The product matt glass! Do not use on glass and ceramic surfaces
Mixture uses advised against
The product should not be used in ways other then those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name TENZI Sp. z o.o.
Address Skarbimierzyce 20, Dołuje, 72-002
Poland
VAT Reg No PL8512583405
Phone +48 91 3119777
E-mail info@tenzi.pl
Web address www.tenzi.pl
- Competent person responsible for the safety data sheet**
Name technolog@tenzi.pl
E-mail technolog@tenzi.pl
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.
- Acute Tox. 3, H301+H311
Skin Corr. 1B, H314
Eye Dam. 1, H318
Acute Tox. 4, H332

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. Harmful if inhaled. Causes serious eye damage. Toxic if swallowed or in contact with skin.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances

hydrofluoric acid

Hazard statements

H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H301+H311 Toxic if swallowed or in contact with skin.



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Precautionary statements

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P405 Store locked up.

Supplemental information

<5 % amphoteric surfactants

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
EC: 931-513-6 Registration number: 01-2119513359-38-XXXX	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18 (even numbered) acyl) derivs., hydroxides, inner salts	<3	Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 4 % < C ≤ 10 %	
Index: 009-003-00-1 CAS: 7664-39-3 EC: 231-634-8 Registration number: 01-2119458860-33-XXXX	hydrofluoric acid 70%	<3	Acute Tox. 2, H300, H330 Acute Tox. 1, H310 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1A, H314: C ≥ 7 % Eye Irrit. 2, H319: 0,1 % ≤ C < 1 % Skin Corr. 1B, H314: 1 % ≤ C < 7 %	1, 2

Notes

- 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.
- Substance with a Union workplace exposure limit.

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



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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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! 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.

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

Inhaling vapours can cause corrosion of the breathing system. Cough, headache.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.3. 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.



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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.

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 mist/vapours/spray. 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 min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
hydrofluoric acid 70% (CAS: 7664-39-3)	OEL 8 hours	1,5 mg/m ³
	OEL 8 hours	1,8 ppm
	OEL 15 minutes	2,5 mg/m ³
	OEL 15 minutes	3 ppm

DNEL

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	12.5 mg/kg bw/day			SDS
Workers	Inhalation	44 mg/m ³ /8h			SDS
Consumers	Dermal	7.5 mg/kg bw/day			SDS
Consumers	Oral	7.5 mg/kg bw/day			SDS



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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

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Value	Determining method
Drinking water	0.0135 mg/l	
Seawater	0.00135 mg/l	
Sea sediments	1 mg/kg	
Soil (agricultural)	0.805 mg/kg	

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	

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

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.

More information

Recommended presence at the workplace HEXAFLUORINE - solution for washing eyes and places on the body, in upon contact with hydrofluoric acid or its solution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless



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Odour	Characteristic for the materials used
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
pH	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	1,010 g/cm ³ (+-) 0,020
Form	colorless liquid

9.2. Other information

not available

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.

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

Protect against strong acids, bases and oxidizing agents. 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

Harmful if inhaled. Toxic if swallowed or in contact with skin.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Skin	LD ₅₀	>620 mg/kg		Rat (Rattus norvegicus)	F/M	Based on evidence	karta charakterystyki
Oral	LD ₅₀	2430 mg/kg		Rat (Rattus norvegicus)	F/M	Based on evidence	karta charakterystyki



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

Skin corrosion/irritation

Causes severe skin burns and eye damage.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Not irritating			Based on evidence	karta charakterystyki

Serious eye damage/irritation

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

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Serious eye damage			Based on evidence	karta charakterystyki

Sensitization

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method	Source
Skin	No effect	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		Based on evidence	karta charakterystyki

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Mutagenicity

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative	OECD 471					Based on evidence	karta charakterystyki



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1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative	OECD 476					Based on evidence	karta charakt erystyki
Negative	OECD 474					Based on evidence	karta charakt erystyki

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.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC ₅₀	OECD 202	1.9 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakte rystyki
ErC ₅₀		2.4 mg/kg	72 hour	Algae and other aquatic plants		Indicator of growth	karta charakte rystyki
ErC ₅₀		7 mg/l	72 hour	Daphnia (Daphnia magna)		Indicator of growth	karta charakte rystyki
LC ₅₀	OECD 203	1.11 mg/l	96 hour	Fishes (Oncorhynchus mykiss)			karta charakte rystyki



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hydrofluoric acid 70%

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC ₅₀		43 mg/l	96 hour	Algae (Selenastrum capricornutum)	Freshwater		SDS
LC ₅₀		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
EC ₅₀		26 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater		SDS
EC ₅₀		10.5 mg/l		Daphnia (Daphnia magna)	Salt water		SDS
NOEC		8.9 mg/l	21 day	Daphnia (Daphnia magna)	Freshwater		SDS
LC ₅₀		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

Chronic toxicity

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC ₅₀		3000 mg/l	16 hour	Bacteria (Salmonella typhimurium)		Based on evidence	karta charakterystyki
NOEC	OECD 211	0.3 mg/l	21 day	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
NOEC	OECD 210	0.135 mg/l	100 day	Fishes (Oncorhynchus mykiss)		Based on evidence	karta charakterystyki
NOECr		0.6 mg/l	72 hour	Algae and other aquatic plants		Based on evidence	karta charakterystyki

12.2. Persistence and degradability



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Biodegradability

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
		95 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki
		80-90 %	60 day		Based on evidence	Easily biodegradable	karta charakterystyki
	OECD 306	75 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki

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.

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 02 plastic packaging

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

SECTION 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. Transport hazard class(es)

8 Corrosive substances



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14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

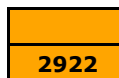
not relevant

Additional information

Hazard identification No.

UN number

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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

For the following substances, mixtures:

Hydrofluoric acid: the manufacturer has performed a chemical safety assessment

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts: the manufacturer has performed a chemical safety assessment

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H301+H311	Toxic if swallowed or in contact with skin.

Guidelines for safe handling used in the safety data sheet

P280	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 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.



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- P271 Use only outdoors or in a well-ventilated area.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P405 Store locked up.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CE ₅₀	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
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



SAFETY DATA SHEET

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

ALUX GT

Creation date	18th May 2012	Version	2.0
Revision date	25th March 2022		

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.