

ALU CLEANER

Creation date 06. September 2019
Revision date Version 3.0

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

1.1. Product identifier
Substance / mixture ALU CLEANER
Number 1 35475 - 1 L/1 35419 - 5 L/1 35420 - 20 L
UFI 0463-MDRU-E00A-XQ8R

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use Cleaning agent.

The use descriptors

SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC 7 Industrial spraying
PROC 8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 8b Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC 10 Roller application or brushing
PROC 11 Non industrial spraying
ERC 8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC 8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Mixture uses advised against For professional use only.

1.3. Details of the supplier of the safety data sheet**Supplier**

Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com

Competent person responsible for the safety data sheet

Name RETECH, s.r.o.
E-mail info@retech.cz

1.4. Emergency telephone number

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

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. 4, H302
Skin Corr. 1, H314

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

Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes severe skin burns and eye damage.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

alcohols, C12-14, ethoxylated
ammonium bifluoride

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
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.

2.3. Other hazards

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: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 Registration number: 01-2119485924-24	phosphoric acid	10-20	Skin Corr. 1B, H314 Specific concentration limit: Skin Corr. 1B, H314: C ≥ 25 % Eye Irrit. 2, H319: 10 % ≤ C < 25 % Skin Irrit. 2, H315: 10 % ≤ C < 25 %	1
Index: 016-020-00-8 CAS: 7664-93-9 EC: 231-639-5 Registration number: 01-2119458838-20	sulphuric acid	5-10	Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1A, H314: C ≥ 15 % Eye Irrit. 2, H319: 5 % ≤ C < 15 % Skin Irrit. 2, H315: 5 % ≤ C < 15 %	1
CAS: 68439-50-9 Registration number: POLYMER	alcohols, C12-14, ethoxylated	5-10	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 009-009-00-4 CAS: 1341-49-7 EC: 215-676-4 Registration number: 01-2119489180-38	ammonium bifluoride	1-5	Acute Tox. 3, H301 Skin Corr. 1B, H314 Specific concentration limit: Skin Irrit. 2, H315: 0,1 % ≤ C < 1 % Skin Corr. 1B, H314: C ≥ 1 % Eye Irrit. 2, H319: 0,1 % ≤ C < 1 %	

Notes

1 Substance for which exposure limits of Community for working environment exist.

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**

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

If inhaled

Remove person to fresh air and keep comfortable for breathing.

If on skin

Remove contaminated clothes. Rinse skin with water/shower. Provide medical treatment.

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. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

not available

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

not available

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

not available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, powder, water spray jet. Foam.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

In the event of fire toxic gases may arise.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

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SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
Ventilate the room. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes. Keep unprotected persons away.
- 6.2. Environmental precautions**
Do not allow product to reach sewage system or any water course.
- 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.
- 6.4. Reference to other sections**
See the Section 7, 8 and 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling.
- 7.2. Conditions for safe storage, including any incompatibilities**
Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight.
- 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

Substance name (component)	Type	Time of exposure	Value	Note	Source
phosphoric acid (CAS: 7664-38-2)	OEL	8 hours	1 mg/m ³		EU limits
	OEL	Short-term	2 mg/m ³		
sulphuric acid (CAS: 7664-93-9)	OEL	8 hours	0,05 mg/m ³		EU limits

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
phosphoric acid (CAS: 7664-38-2)	WEL	8 hours	1 mg/m ³		GBR
	WEL	15 minutes	2 mg/m ³		
sulphuric acid (CAS: 7664-93-9)	WEL	8 hours	0,05 mg/m ³	Fog	GBR

- 8.2. Exposure controls**
Follow the usual measures intended for health protection at work and especially for good ventilation.
- Eye/face protection**
Protective goggles.
- Skin protection**
Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter B.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	liquid at 20°C
color	colourless
Odour	characteristic
Odour threshold	data not available
pH	2 (1% solution)
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	1.15
Solubility(ies)	
solubility in water	soluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available
data not available	

9.2. Other information

Density	data not available
ignition temperature	data not available

SECTION 10: Stability and reactivity**10.1. Reactivity**

When used in the standard way, there is not any dangerous reaction with other substances.

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.

10.5. Incompatible materials

not available

10.6. Hazardous decomposition products

The product is stable and no degradation occurs under normal use.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Harmful if swallowed.

ammonium bifluoride

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	60-130 mg/kg		Rat	

phosphoric acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	2600 mg/kg		Rat	
Dermal	LD ₅₀	2740 mg/kg		Rabbit	
Inhalation	LC ₅₀	3.846 mg/l		Rat	

sulphuric acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	2140 mg/kg		Rat	
Inhalation (vapor)	LC ₅₀	0.375 mg/l	4 hour	Rat	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and 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.

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

Data for the mixture are not available.

ammonium bifluoride

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	273-562 mg/l		Fishes	
EC ₅₀	97 mg/l		Daphnia	
EC ₅₀	43 mg/l	72 hour	Algae	

phosphoric acid

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	98-106 mg/l		Fishes (Lepomis macrochirus)	
EC ₅₀	>100 mg/l		Daphnia	
EC ₅₀	>100 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

sulphuric acid

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	794 mg/l		Fishes	
EC ₅₀	>100 mg/l		Daphnia	
EC ₅₀	>50 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

Chronic toxicity

phosphoric acid

Parameter	Value	Time of exposure	Species	Environment
NOEC	56 mg/l		Crustaceans	
NOEC	100 mg/l		Algae (Desmodesmus subspicatus)	

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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. Other adverse effects

Harmful for aquatic organisms.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

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.

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

16 03 03 inorganic wastes containing dangerous substances

Packaging waste type code

15 01 02 plastic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information**14.1. UN number**

UN 1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not available

Additional information

Hazard identification No.

UN number

Classification code

Safety signs

80 (Kemler Code)
1760

C9

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Road transport - ADR

Special provision 274
Limited quantities 1 L

Packaging

Packing instructions P001, IBC02
Mixed packing provisions MP15

Portable tanks and bulk containers

Guidelines T11
Special provision TP2, TP27

ADR tank

Tank code L4BN
Vehicles for tank carriage AT
Transport category 2
Tunnel restriction code (E)

Railway transport - RID

Special provision 274

Packaging

Packing instructions P001, IBC02
Mixed packing provisions MP15

Portable tanks and bulk containers

Guidelines T11
Special provision TP2, TP27

RID Tanks

Tank code L4BN

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 ammended.

Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

5-<15 % non-ionic surfactants

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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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.

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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
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
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
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
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
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

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

Verze 3.0 nahrazuje verzi BL z 04.12.2018. Změny byly provedeny v oddělech 2, 13, 15 a 16.

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.