


Date of issue: 11/07/2017	Trade name:	Page: 1/8
Reviewed on:	ALU CLEANER	Version: 2.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

- 1.1. Product identifier:
Trade name: **ALU CLEANER**
Product code: **1 35419 - 1 L/1 35420 - 5 L**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Cleaner.
For professional and industrial use only.
Uses advised against: Not known.
- 1.3. Details of the supplier of the safety data sheet:
Identification of manufacturer/Supplier:
RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky
Telephone number/Fax: +420 327 596 128, +420 327 596 428
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)
Toxikologické informační středisko (Toxicology information centre),
Na bojišti 1, 128 08 PRAHA 2, Czech Republic
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. * Section 2. Hazard identification:

- 2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008 [CLP]:
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- 2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008 [CLP]:
- 

Signal Word: Danger

Hazard Statements:
H314 Causes severe skin burns and eye damage.

Precautionary Statements:
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with national regulation.

Contained dangerous substances:
7664-93-9 sulphuric acid; 7664-38-2 orthophosphoric acid

Regulation (EC) No 648/2004:
non-ionic surfactants < 5 %
- 2.3. Other hazards:
Results of PBT and vPvB assessment:

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name:	Page: 2/8
Reviewed on:	ALU CLEANER	Version: 2.0

PBT: Not applicable.
vPvB: Not applicable.

3. * Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 7664-38-2	Orthophosphoric acid	< 25 %
EINECS: 231-633-2	Met. Corr.1, H290; Skin Corr. 1B, H314; Acute Tox. 4, H302	
Reg. No.: 01-2119485924-24		
CAS: 7664-93-9	Sulphuric acid	2.5 - 10 %
EINECS: 231-639-5	Skin Corr. 1A, H314	

For full text of H-statements: see SECTION 16

Regulation (EC) No 648/2004 on Detergents:
non-ionic surfactants < 5 %

4. Section 4. First aid measures:

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.
 After inhalation: In case of unconsciousness place patient stably in side position for transportation.
 After skin contact: Generally the product does not irritate the skin.
 After eye contact: Rinse opened eye for several minutes under running water.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Get medical attention if any discomfort continues.
 After swallowing: Rinse mouth immediately and drink large quantities of water.
 Immediately call a doctor.

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

No further relevant information available.

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

No further relevant information available.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Water haze, carbon dioxide, fire-extinguishing powder.
 Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents:

No further relevant information available.

5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

5.3. Advice for firefighters:

No special requirements.
 Wear protective clothing and self-contained breathing apparatus.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective equipment, see Section 8.
 Keep unprotected persons away.
 Ensure adequate ventilation.

6.2. Environmental precautions:

Do not allow to enter sewage system or water course.

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Use neutralising agent.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name: ALU CLEANER	Page: 3/8
Reviewed on:		Version: 2.0

6.4. Reference to other sections: Dispose contaminated material as waste according to Section 13.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Section 7. Handling and storage:

7.1. Precautions for safe handling:
Protective measures: Wear protective equipment, see Section 8.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Measures to prevent fire: No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities:
Requirements for storage rooms and vessels: No special measures are necessary.
Technical measures and storage conditions: No special measures are necessary.
Further information on storage conditions: Keep receptacle tightly sealed.

7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:
Components with limit values that require monitoring at the workplace:
WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
7664-38-2	Orthophosphoric acid	-	1	-	2	
7664-93-9	Sulphuric acid (mist)	-	0.05	.	.	The mist is defined as the thoracic fraction

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

CAS	Name of agent	Eight hours		Short-term		Notation
		ppm	mg/m ³	ppm	mg/m ³	
7664-93-9	Sulphuric acid (mist)	-	0,05	-	-	

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:
Ensure good ventilation/exhaustion at the workplace.

General protective measures: Store away from foodstuffs, beverages and feed.
Take off immediately all contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid breathing vapours/spray.
Avoid skin and eye contact.

Personal protection equipment:
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device.
During intensive or longer exposure use self-contained breathing apparatus.
Eye protection: Tightly sealed goggles.
Hand protection: Protective gloves.
Skin protection: Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:
Form: Liquid.
Colour: Colourless.
Odour: Pungent.
Odour threshold: Not determined.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name:	Page: 4/8
Reviewed on:	ALU CLEANER	Version: 2.0

Value pH:	1
Melting point/freezing point:	Not determined.
Initial boiling point/boiling range:	Not determined.
Flash point:	Not determined.
Evaporation rate:	Not determined.
Flammability (solid, gas):	Not determined.
Explosive properties:	The product is not explosive.
Explosive limits:	
- lower:	Not determined.
- upper:	Not determined.
Vapour pressure at 20°C:	23 hPa
Vapour density at 20 °C:	Not determined.
Density at 20°C:	Not determined.
Relative density:	Not determined.
Solubility in/miscibility:	Water: miscible.
Partition coefficient (n-octanol/water):	Not determined.
Ignition temperature:	158 °C
Decomposition temperature:	Not determined.
Self-ignition temperature:	The product is not selfigniting.
Viscosity:	Not determined.
Oxidising properties:	Not determined.
9.2. Other information:	No further relevant information available.

10. Section 10. Stability and reactivity:

10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	No decomposition if used according to specifications.
10.3. Possibility of hazardous reactions:	No dangerous reactions known.
10.4. Conditions to avoid:	No further relevant information available.
10.5. Incompatible materials:	No further relevant information available.
10.6. Hazardous decomposition products:	No dangerous decomposition products known.

11. * Section 11. Toxicological information:

11.1. Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

Relevant hazards for substance:

7664-93-9 Sulphuric acid

Oral	LD50 rat	2140 mg/kg
------	----------	------------

7664-38-2 Orthophosphoric acid

Oral	LD50 rat	1530 mg/kg
Dermal	LD50 rabbit	2740 mg/kg

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: 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.

Specific target organ toxicity - single exposure: Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name:	Page: 5/8
Reviewed on:	ALU CLEANER	Version: 2.0

Aspiration hazard: Based on available data, the classification criteria are not met.
Other information: No further relevant information available.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity: No further relevant information available.

7664-93-9 Sulphuric acid

Fish:	LC50/96 h	Onchorhynchus mykiss	10 mg/l
-------	-----------	----------------------	---------

7664-38-2 Orthophosphoric acid

Fish:	LC50/96 h	Onchorhynchus mykiss	100 - 1000 mg/l
-------	-----------	----------------------	-----------------

12.2. Persistence and degradability: The surfactant ingredients contained in this mixture comply with the biodegradability requirements of Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil: No further relevant information available.

Additional ecological information:

Ecotoxic effects:

General notes:

Water danger class 2 (German Regulation) (Self-assessment):
hazardous for water

Do not allow product to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into soil.

Rinse off of bigger amounts into drains or the aquatic environment may lead

to decreased pH-values. A low pH-value harms aquatic organisms.

In the dilution of the use-level the pH-value is considerably increased, so

that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

12.5. Results of PBT and vPvB assessment:

PBT: Not applicable.

VPvB: Not applicable.

12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal: Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

European Waste Catalogue:

16 03 03* inorganic wastes containing hazardous substances

(*hazardous waste)

Packagings disposal: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

European Waste Catalogue:

15 01 02 plastic packaging

Packing which cannot be properly cleaned must be disposed of.

European Waste Catalogue:

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

(*hazardous waste)

Other disposal recommendations:

Disposal must be made according to official regulations.

The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:




Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name:	Page: 6/8
Reviewed on:	ALU CLEANER	Version: 2.0

14.1. UN number:
ADR, IMDG, IATA UN 3264

Date of issue: 11/07/2017	Trade name:	Page: 7/8
Reviewed on:	ALU CLEANER	Version: 2.0

14.2. UN proper shipping name:	
ADR	UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
14.3. Transport hazard class(es):	
ADR	
Class	8 (C1) Žíravé látky
Hazard label	8
IMDG	
Class	8 Corrosive substances.
Hazard label	8
IATA	
Class	8 Corrosive substances.
Hazard label	8
14.4. Packing group:	
ADR, IMDG, IATA	II
14.5. Environmental hazards:	
Marine pollutant:	No
14.6. Special precautions for user:	Warning: Corrosive substances.
EMS Number:	F-A, S-B
Danger Code (Kemler):	80
Segregation group:	Acids
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable
ADR	
Limited quantities (LQ):	1L
Transport category:	2
Tunnel restriction code:	E
UN "Model Regulation":	UN 3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION), 8, II

15. * Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)

Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
Commission Decision 2000/532/EC establishing a list of wastes, as amended

Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values

Safety Data Sheet

According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

Date of issue: 11/07/2017	Trade name:	Page: 8/8
Reviewed on:	ALU CLEANER	Version: 2.0

Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. * Section 16. Other information:

Relevant H-statements (Section 3):

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level

EC50: Median effective concentration to 50% of a population

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

PNEC: Predicted No-Effect Concentration

Reg. No.: Registration number

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Acute Tox. 4: Acute toxicity, category 4

Met. Corr. 1: Substance or mixture corrosive to metals, category 1

Skin Corr. 1: Skin corrosion, category 1

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**