

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

### 1.1. Product identifier

Product form : Substance  
Trade name : Alu Cleaner Soft

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Main use category : Professional use

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

DL CHEMICALS  
Roterijstraat 201-203  
B-8793 Waregem - Belgium  
T + 32 56 62 70 51 - F + 32 56 60 95 68  
[info@dl-chem.com](mailto:info@dl-chem.com) - [www.dl-chem.com](http://www.dl-chem.com)

### 1.4. Emergency telephone number

Emergency number : + 32 70 245 245

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

Full text of hazard classes and H-statements : see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07

CLP Signal word : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P280 - Wear protective gloves, eye protection, face protection  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P403+P235 - Store in a well-ventilated place. Keep cool

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking

Listed in Annex VI : EC index no : 603-117-00-0

### 2.3. Other hazards

Other hazards not contributing to the classification : Decomposes slowly in contact with water. May decompose under the influence of light. Presents no specific risk for the environment. Vapours may form explosive mixture with air.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# Alu Cleaner Soft

## Safety Data Sheet

according to Regulation (EU) 2015/830

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice (show the label where possible).
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation persists, take medical advice.
- First-aid measures after eye contact : Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.
- First-aid measures after ingestion : Drink plenty of water. Rinse mouth with water, do not induce vomiting, call a doctor.

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

- Symptoms/injuries after inhalation : Drowsiness. Unconsciousness. Sore throat. Dizziness. Coughing, sneezes. Mental confusion.
- Symptoms/injuries after skin contact : Redness, pain. Dry skin.
- Symptoms/injuries after eye contact : Redness, pain. Decrease of vision.
- Symptoms/injuries after ingestion : Nausea.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : extinguishing powder. Water spray. Carbon dioxide. Alcohol resistant foam.
- Unsuitable extinguishing media : Strong water jet.

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

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. fume.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel. Do not breathe fumes from fires or vapours from decomposition.
- Firefighting instructions : Cool down the containers exposed to heat with a water spray.
- Protection during firefighting : Use self-contained breathing apparatus when in close proximity to fire. Wear suitable protective clothing, gloves and eye or face protection.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

- General measures : Eliminate every possible source of ignition. Do not inhale vapour. Avoid any direct contact with the product. Evacuate area. Ensure adequate air ventilation. Equip cleanup crew with proper protection.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

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### 6.2. Environmental precautions

Contain the spilled material by bunding. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if product enters sewers or public waters. Stop leak if safe to do so.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wash away residue with large amounts of water. This material and its container must be disposed of as hazardous waste. Take up liquid spill into absorbent material, e.g.: sand, saw dust. Collect all waste in suitable and labelled containers and dispose according to local legislation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid raising dust.  
Precautions for safe handling : Do not breathe vapours. Use personal protective equipment as required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat and do not drink during use. Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in fireproof place. Keep only in the original container in a cool, well-ventilated place. Provide for a tub to collect spills.  
Incompatible products : Keep away from : Strong acids, strong bases and strong oxidants.  
Heat and ignition sources : Do not use compressed air to either agitate or transfer the contents of storage containers (tanks) / shipping drums containing this material. Eliminate every possible source of ignition. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Take precautionary measures to prevent the formation of static electricity. Use non-sparking tools.  
Prohibitions on mixed storage : strong oxidants and strong acids.  
Storage area : Protect from heat and direct sunlight.  
Packaging materials : Bronze. copper. Stainless steel. Polypropylene. Polyester. Polyethylene. Teflon. Do not use : Aluminium, Polystyrene.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
United Kingdom	WEL TWA (mg/m³)	999 mg/m³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m³)	1250 mg/m³
United Kingdom	WEL STEL (ppm)	500 ppm
Alu Cleaner Soft (67-63-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	500 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	26 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	89 mg/m³	
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	140,9 mg/l	
PNEC aqua (marine water)	140,9 mg/l	
PNEC aqua (intermittent, freshwater)	140,9 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	552 mg/kg dwt	
PNEC sediment (marine water)	552 mg/kg dwt	
PNEC (Soil)		

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### Alu Cleaner Soft (67-63-0)

PNEC soil 28 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant 2251 mg/l

### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Hand protection :

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber	6 (> 480 minutes)	0,35		EN 374

Eye protection :

Type	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	

Skin and body protection : Wear suitable protective clothing

Respiratory protection :

Device	Filter type	Condition	Standard
Reusable half mask	Filter AX (brown)		



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless. clear.
Odour	: alcohol odour.
Odour threshold	: 0,36 mg/m <sup>3</sup>
pH	: Neutral
Relative evaporation rate (butylacetate=1)	: 3,9
Melting point	: -89 °C
Boiling point	: 82 - 83 °C
Flash point	: 12 - 15 °C
Auto-ignition temperature	: 350 °C
Vapour pressure	: 4,2 - 6 kPa at 20 °C
Relative vapour density at 20 °C	: 2,1
Relative density of saturated gas/air mixture	: 1,5
Density	: 0,8 kg/l at 20 °C
Solubility	: alcohols. ether. chloroform. Water: completely soluble
Viscosity, kinematic	: 2,66 mm <sup>2</sup> /s at 25 °C
Viscosity, dynamic	: 2,1 - 2,5 mPa.s at 25 °C
Explosive limits	: 2 - 13 vol %

### 9.2. Other information

Specific conductivity	: 5.8*10E6 pS/m
VOC content	: 100 %

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts violently with : Strong acids and oxidants.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

May decompose on contact with moist air or water. May decompose under the influence of light.

#### 10.4. Conditions to avoid

High temperature.

#### 10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Formaldehyde. Hydrogen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat (mg/l)	20 mg/l/4h
LC50 inhalation rat (ppm)	6h 10000 ppm

Skin corrosion/irritation : Not classified

Repeated exposure may cause skin dryness or cracking  
mild skin irritation (rabbit)  
May cause eczema  
pH: Neutral

Serious eye damage/irritation : Causes serious eye irritation.

pH: Neutral

Respiratory or skin sensitisation : Not classified

This product does not cause skin sensitization

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

May have damaging effect on respiratory system, central nervous system and liver

Aspiration hazard : Not classified

Alu Cleaner Soft (67-63-0)	
Viscosity, kinematic	2,66 mm <sup>2</sup> /s at 25 °C

### SECTION 12: Ecological information

#### 12.1. Toxicity

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LC50 fish 1	96 h 9640 mg/l
EC50 Daphnia 2	24 h 1000 mg/l Daphnia Magna
EC50 other aquatic organisms 2	72 h 1000 ml/l algae

#### 12.2. Persistence and degradability

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Persistence and degradability	Biodegradable.

#### 12.3. Bioaccumulative potential

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Bioaccumulative potential	Bioaccumulation unlikely.

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### 12.4. Mobility in soil

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Ecology - soil Volatile and soluble in water.

### 12.5. Results of PBT and vPvB assessment

Alu Cleaner Soft (67-63-0)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Empty the packaging completely prior to disposal.

Waste disposal recommendations : Return to the supplier. Dispose of this material and its container at hazardous or special waste collection point.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### ADR

#### 14.1. UN number

1219

#### 14.2. UN proper shipping name

ISOPROPANOL (ISOPROPYL ALCOHOL)

UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II, (D/E)

#### 14.3. Transport hazard class(es)

3



#### 14.4. Packing group

II

#### 14.5. Environmental hazards

Dangerous for the environment : No

No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)

: F1

Special provisions (ADR)

: 601

Limited quantities (ADR)

: 1I

Excepted quantities (ADR)

: E2

Packing instructions (ADR)

: P001, IBC02, R001

Mixed packing provisions (ADR)

: MP19

Portable tank and bulk container instructions (ADR)

: T4

Portable tank and bulk container special provisions (ADR)

: TP1

Tank code (ADR)

: LGBF

Vehicle for tank carriage

: FL

Transport category (ADR)

: 2

Special provisions for carriage - Operation (ADR)

: S2, S20

Hazard identification number (Kemler No.) : 33

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Orange plates

:

33

1219

Tunnel restriction code (ADR)

:

D/E

EAC code

:

•2YE

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type

:

Type 3

Pollution category

:

Z

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions  
Alu Cleaner Soft is not on the REACH Candidate List  
Contains no substance on the REACH candidate list  
Alu Cleaner Soft is not on the REACH Annex XIV List  
Contains no REACH Annex XIV substances

VOC content

:

100 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

MSDS Reach Annex II DL-Chem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product