

Trade name: ecosol ALU

Substance number: SUB302020710000

Version: 2 / EU

Date revised: 24.11.2015

the date of issue: 28.03.12

Replaces Version: 1 / EU

Print date: 22.12.15

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

1.1. Product identifier

ecosol ALU

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

Use of the substance/preparation

Liquid cleanser for industrial dishwashing-machines. For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided by / telephone Regulatory Affairs
E-mail address of person responsible regulatoryaffairs@hagleitner.at
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of person responsible regulatoryaffairs@hagleitner.at
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1C H314
Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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**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.

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 or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Potassium hydroxide; Silicic acid, potassium salt

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Silicic acid, potassium salt**

CAS No. 1312-76-1

EINECS no. 215-199-1

Registration no. PRE

Concentration >= 10 < 25 %

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H314

Met. Corr. 1 H290

Potassium hydroxide

CAS No. 1310-58-3

EINECS no. 215-181-3

Registration no. PRE

Concentration >= 0,5 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314 >= 2 < 5

Skin Corr. 1A H314 >= 5

Skin Irrit. 2 H315 >= 0,5 < 2

Eye Irrit. 2 H319 >= 0,5 < 2

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Ingredients (Regulation (EC) No 648/2004)

Labelling of contents (Regulation (EC) No 648/2004):

5 % or over but less than 15 %:

phosphonates

less than 5 %:

polycarboxylates

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

When spray fog inhaled, seek medical aid immediately and show the physician the packing or the packing label. Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Shield unaffected eye. Take medical treatment.

After ingestion

Do not induce vomiting. Drink water in small gulps. Never give anything by mouth to an unconscious person. Take medical treatment.

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

The following symptoms may occur: Shortness of breath, Coughing

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

Hints for the physician / hazards

Risk of stomach perforation; Risk of respiratory disorders

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, ABC powder, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear protective clothing.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water. Dispose of as prescribed.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only alkali-proof equipment. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**Value \geq 5 \leq 25 °C**Storage stability**

Storage life: 3 years

Requirements for storage rooms and vessels

Keep only in the original container. Provide alkali-resistant floor. Use stainless steel containers. Use polyolefine containers. Do not use aluminium containers. Do not use zinc containers.

Hints on storage assembly

Do not store together with: Acids, Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed; open and handle with care. Protect from frost.

7.3. Specific end use(s)

For industrial application only.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

There is not known any national exposure limit.

8.2. Exposure controls**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

Gloves (alkali-resistant)

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Reference substance	Potassium hydroxide
Appropriate Material	Butyl rubber
Material thickness	= 0,5 mm
Breakthrough time	> 480 min
Gloves (alkali-resistant)	
Reference substance	Potassium hydroxide
Appropriate Material	nitrile
Material thickness	from 0,35 mm
Breakthrough time	> 480 min

Eye protection

Safety glasses; Safety goggles; Face shield

Body protection

Alkali-resistant protective clothing

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

Form	liquid, clear
Colour	yellowish
Odour	Product specific

pH value

Value	> 14	
Concentration/H ₂ O	100	%
Temperature	20	°C
Remarks	strongly alkaline	

Freezing point

Value	appr. -4	to	4	°C
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Sublimation point

Remarks	not determined
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Initial boiling point and boiling range

Value	appr. 100	°C
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Flash point

Value	> 100	°C
Remarks	Not applicable	

Evaporation rate

Remarks	not determined
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Evaporation rate (ether = 1) :

Remarks	not determined
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Upper/lower flammability or explosive limits

Remarks	Not applicable
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Vapour pressure

Remarks	not determined
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Vapour density

Remarks	not determined
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Density

Value	= 1,33	g/cm ³
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Solubility in water

Remarks	Completely miscible
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Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks Not applicable

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

Remarks not determined

Oxidising properties

Remarks Not applicable

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

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

Reactions with acids and strong oxidising agents.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

Protect from contamination.

10.4. Conditions to avoid

Do not store at temperatures below -5 °C.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Skin corrosion/irritation

evaluation strongly corrosive

Serious eye damage/irritation

evaluation strongly corrosive

Sensitization

evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks No data available

Mutagenicity

Remarks No data available

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

Experience in practice

The product has a strong caustic effect on the skin, eyes and mucous membranes.

Other information

Product specific toxicological data are not known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Reference substance	Silicic acid, potassium salt	
CAS No.	1312-76-1	
Species	zebra fish (Brachydanio rerio)	
LC50	> 200	mg/l
Duration of exposure	96 h	

Reference substance	Silicic acid, potassium salt	
CAS No.	1312-76-1	
Species	mosquito fish	
LC50	> 2000	mg/l
Duration of exposure	96 h	

Fish toxicity (Components)**Silicic acid, potassium salt**

Species	zebra fish (Brachydanio rerio)	
LC50	> 200	mg/l
Duration of exposure	= 96 h	

Silicic acid, potassium salt

Species	mosquito fish	
LC50	> 2000	mg/l
Duration of exposure	= 96 h	

Bacteria toxicity

Reference substance	Silicic acid, potassium salt
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CAS No.	1312-76-1	
Species	Pseudomonas sp.	
EC0	1000	mg/l
Duration of exposure	30 min	

Reference substance	Silicic acid, potassium salt	
CAS No.	1312-76-1	
Species	activated sludge	
EC50	> 100	mg/l
Duration of exposure	3 h	

Bacteria toxicity (Components)**Silicic acid, potassium salt**

Species	Pseudomonas sp.	
EC0	= 1000	mg/l
Duration of exposure	= 30 min	

Silicic acid, potassium salt

Species	activated sludge	
EC50	> 100	mg/l
Duration of exposure	= 3 h	

12.2. Persistence and degradability**General information**

No data available

12.3. Bioaccumulative potential**General information**

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**General information**

Not applicable

12.6. Other adverse effects**General information**

not determined

General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 20 01 15* alkalines
Dispose of as hazardous waste.

Disposal recommendations for packaging

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EWC waste code 20 01 39 plastics
Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (Silicic acid, potassium salt)

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group II

Limited Quantity 1 I

Transport category 2

14.5. Environmental hazards

-

Tunnel restriction code E



Marine transport IMDG/GGVSee

14.1. UN number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (Silicic acid, potassium salt)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.5. Environmental hazards

-

Air transport ICAO/IATA

14.1. UN number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (Silicic acid, potassium salt)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

The relevant transport regulations have to be considered.

Other information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not determined

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SECTION 15: Regulatory information

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

5 % or over but less than 15 %:

phosphonates

less than 5 %:

polycarboxylates

Water Hazard Class (Germany)

Water Hazard Class	WGK 2
(Germany)	

Remarks	Classification according to Annex 4 VwVwS
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VOC

VOC (CH)	0,0	%
VOC (EU)	0,0	%

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 CAS: Chemical Abstracts Service
 IMDG: International Maritime Code for Dangerous Goods
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 INCI: International Nomenclature of Cosmetic Ingredients
 MAK: Maximale Arbeitsplatz-Konzentration
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 GHS: Globally Harmonized System of classification and Labelling of Chemicals
 EU: European Union
 EC: European Community
 IMO: International Maritime Organization
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

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DNEL: Derived no effect level
DMEL: Derived minimal effect level
PNEC: Predicted no effect concentration
CEFIC: European Chemical Industry Council
UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

