

Trade name: ecosol GLASS

Substance number: SUB302021980000

Version: 4 / EU

Date revised: 24.11.2015

the date of issue: 31.01.12

Replaces Version: 3 / EU

Print date: 22.12.15

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

### **1.1. Product identifier**

**ecosol GLASS**

### **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 Regulatory Affairs  
by / telephone  
E-mail address of regulatoryaffairs@hagleitner.at  
person responsible  
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 regulatoryaffairs@hagleitner.at  
person responsible  
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. 1A 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**

**Signal word**

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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 Sodium 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)****Sodium hydroxide**

CAS No. 1310-73-2

EINECS no. 215-185-5

Registration no. 01-2119457892-27-XXXX

Concentration  $\geq 5$   $< 10$  %

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

Skin Corr. 1A H314

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

Skin Corr. 1A H314  $\geq 5$ Skin Irrit. 2 H315  $\geq 0,5 < 2$ Eye Irrit. 2 H319  $\geq 0,5 < 2$ Skin Corr. 1B H314  $\geq 2 < 5$ **Silicic acid, potassium salt**

CAS No. 1312-76-1

EINECS no. 215-199-1

Registration no. PRE

Concentration  $\geq 1$   $< 3$  %

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

Eye Dam. 1 H314

Met. Corr. 1 H290

**Ingredients (Regulation (EC) No 648/2004)**

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

less than 5 %:

polycarboxylates

phosphonates

**SECTION 4: First aid measures**

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## 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. Eye treatment by an Occulist.

### 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 full protective suit. In case of combustion use a suitable breathing apparatus.

#### Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

Use personal protective clothing. High risk of slipping due to leakage/spillage of product. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

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

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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

Refer to protective measures listed in Sections 7 and 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. Handle and open container with care.

##### **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.

##### **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.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

##### **Other information**

Maintain air concentrations below occupational exposure standards.

#### 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. Breathing apparatus in the event of aerosol or mist formation.

##### **Hand protection**

Gloves (alkali-resistant)

Appropriate Material	nitrile		
Material thickness	=	0,1	mm
Breakthrough time	>	480	min

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

Gloves (alkali-resistant)

Appropriate Material	neoprene		
Material thickness	=	0,35	mm
Breakthrough time	>	480	min

##### **Eye protection**

Tightly fitting safety glasses

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**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** light yellow, clear  
**Odour** Product specific

**pH value**

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

**Freezing point**

Value appr. -4 to 4 °C

**Sublimation point**

Remarks not determined

**Initial boiling point and boiling range**

Value appr. 100 °C

**Flash point**

Value > 100 °C  
 Remarks Not applicable

**Evaporation rate**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Upper/lower flammability or explosive limits**

Remarks Not applicable

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

Value appr. 1,17 g/cm<sup>3</sup>  
 Temperature 20 °C

**Solubility in water**

Remarks Completely miscible

**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**

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**dynamic**

Remarks

Not applicable

**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**

Product reacts with: Acids, Oxidising agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

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

ATE

&gt; 10.000

mg/kg

Method

calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Sodium hydroxide**

Species

mouse

LD50

= 5800

mg/kg

**Sodium hydroxide**

Species

rat

LD50

= 2000

mg/kg

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Source Manufacturer's data

**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 ( <i>Brachydanio rerio</i> )	
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)****Sodium hydroxide**

LC50	= 35 to 189	mg/l
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**Daphnia toxicity (Components)****Sodium hydroxide**

Species	Ceriodaphnia spec	
EC50	= 40,4	mg/l

**Bacteria toxicity**

Reference substance	Silicic acid, potassium salt
CAS No.	1312-76-1

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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	

**12.2. Persistence and degradability****General information**

No data available

**Biodegradability**

Remarks Information on biodegradation processes is 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

**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**

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 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

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

Class 8



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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 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

**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 1824

**14.2. UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

**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

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

less than 5 %:

phosphonates, polycarboxylates

**Water Hazard Class (Germany)**

Water Hazard Class WGK 1

(Germany)

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Remarks

Classification according to Annex 4 VwVwS

**VOC**

VOC (CH)	=	0,1	%
VOC (EU)	=	0,1	%

**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.
H314	Causes severe skin burns and eye damage.

**CLP categories listed in Chapter 3**

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  
 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.

