

Trade name: ecosol PLUS

Substance number: SUB302020040000

Version: 7 / EU

Date revised: 11.02.13

the date of issue: 05.03.07

Replaces Version: 6 / EU

Date of printing: 06.06.13

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

1.1. Product identifier

ecosol PLUS

S001200020

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

Manufacture

Firm	HAGLEITNER HYGIENE INTERNATIONAL GmbH
Address	Lunastrasse 5 5700 Zell am See - Austria
Telephone no.	+43 (0)5 0456
Fax no.	+43 (0)5 0456 7777
E-Mail	international@hagleitner.com
Website	www.hagleitner.com
	Monday - Friday 08:00 - 17:00

Contact person

Division	Regulatory Affairs
E-mail address of person responsible for this SDS	sicherheit@hagleitner.com
	Monday - Friday 08:00 - 17:00
Emergency telephone	Anti Poison Center Vienna: +43 (0)1 406 43430

Address

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	sicherheit@hagleitner.com
Information provided by / telephone	Regulatory Affairs
E-mail address of person responsible for this SDS	sicherheit@hagleitner.com

1.4. Emergency telephone number

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

2. Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with EC directives

Classification C, R35

2.2. Label elements

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

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For industrial application only.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

corrosive

R phrases

- 22 Harmful if swallowed.
35 Causes severe burns.

S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

Hazardous component(s) to be indicated on label

contains Potassium hydroxide

3. Composition/information on ingredients**Hazardous ingredients****Potassium hydroxide**

CAS No.	1310-58-3				
EINECS no.	215-181-3				
Concentration	>=	10	<	25	%
Classification	Xn, R22 C, R35				

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

Acute Tox. 4	H302
Skin Corr. 1A	H314

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

Skin Corr. 1A	H314	>= 5
Skin Corr. 1B	H314	<= 2 < 5
Skin Irrit. 2	H315	<= 0,5 < 2
Eye Irrit. 2	H319	<= 0,5 < 2

Ingredients (Regulation (EC) No 648/2004)

5 % or over but less than 15 %:
phosphonates
less than 5 %:
polycarboxylates

4. First aid measures**4.1. Description of first aid measures**

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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 off 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. Begin with 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.

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

5.3. 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.

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.

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, chapter 8.

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

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No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

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.

VCI storage category

VCI storage category

8B

Non-combustible corrosive substances

Further information on storage conditions

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

8. Exposure controls/personal protection

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)

Use of the

Short-term hand contact

substance/preparation

Reference substance

Sodium hydroxide

Appropriate Material

Butyl rubber

Material thickness

= 0,5 mm

Penetrating time

> 480 min

Gloves (alkali-resistant)

Use of the

Short-term hand contact

substance/preparation

Reference substance

Sodium hydroxide

Appropriate Material

nitrile

Material thickness

from 0,35 mm

Penetrating time

> 480 min

Eye protection

Safety glasses; Safety goggles; Face shield

Body protection

Alkali-resistant protective clothing

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

liquid

Colour

yellow-brown

Odour

Product specific

pH

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Value	>	14	
Concentration/H ₂ O		100	%
Temperature		20	°C
Remarks	strongly alkaline		
Value	appr.	12,5	
Concentration/H ₂ O		10	g/l
Temperature		20	°C

Freezing point

Value	appr.	-4	to	4	°C
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Boiling point

Value	appr.	100	°C
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Flash point

Value	>	100	°C
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Remarks: Not applicable

Explosion limits

Remarks: Not applicable

Vapour pressure

Remarks: not determined

Density

Value	1,37	g/cm ³
Temperature	20	°C

Solubility in water

Remarks: Completely miscible

Ignition temperature

Remarks: Not applicable

Thermal decomposition

Remarks: No decomposition if used as prescribed.

Oxidising properties

Remarks: Not applicable

10. Stability and reactivity**10.4. Conditions to avoid**

Do not store at temperatures below -5 °C.

Thermal decomposition

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.

11. Toxicological information**11.1. Information on toxicological effects****Skin corrosion/irritation**

evaluation: strongly corrosive

Serious eye damage/irritation

evaluation: strongly corrosive

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Sensitization

evaluation

non-sensitizing

Other information

Product specific toxicological data are not known.

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

Reference substance	Potassium hydroxide
CAS No.	1310-58-3
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)
LC50	45,4 mg/l
Duration of exposure	96 h
Source	Literature value

Reference substance	Polyacrylic acid, modified, sodium salt
CAS No.	POLYMER
Species	golden orfe (<i>Leuciscus idus</i>)
LC50	> 100 mg/l
Duration of exposure	96 h
Source	Literature value

Reference substance	[[[phosphonomethyl]imino]bis[(ethylenenitrilo)bis(methylene)]]tetrakisphosphonic acid, sodium salt
CAS No.	22042-96-2
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)
LC50	> 180 mg/l
Duration of exposure	96 h
Source	Literature value

Daphnia toxicity

Reference substance	Potassium hydroxide
CAS No.	1310-58-3
Species	Ceriodaphnia spec
LC50	40 mg/l
Duration of exposure	48 h
Source	Literature value

Reference substance	[[[phosphonomethyl]imino]bis[(ethylenenitrilo)bis(methylene)]]tetrakisphosphonic acid, sodium salt
CAS No.	22042-96-2
Species	Daphnia magna
EC50	242 mg/l
Duration of exposure	48 h
Source	Literature value

Algae toxicity

Reference substance	Polyacrylic acid, modified, sodium salt
CAS No.	POLYMER
EC50	> 100 mg/l
Duration of exposure	72 h
Source	Literature value

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Reference substance	[[[(phosphonomethyl)imino]bis[(ethylenenitrilo)bis(methylene)]]tetrakisphosphonic acid, sodium salt		
CAS No.	22042-96-2		
Species	Selenastrum capricornutum		
EC50	1,6		mg/l
Duration of exposure	96	h	
Source	Literature value		

Bacteria toxicity

Reference substance	Polyacrylyacid, modified, sodium salt		
CAS No.	POLYMER		
Species	activated sludge		
EC10	> 1000		mg/l

12.2. Persistence and degradability**Biodegradability**

Reference substance	Polyacrylyacid, modified, sodium salt		
Value	20	to	70 %
evaluation	Moderately/partially eliminable from water		
Method	OECD 302B / ISO 9888 / EEC 88/302 C		
Remarks	DOC decrease		
Reference substance	Potassium hydroxide		
Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.		

Chemical oxygen demand (COD)

Reference substance	Polyacrylyacid, modified, sodium salt		
Value	465		mg/g

12.6. Other adverse effects**Behaviour in sewers [waste treatment plants]**

When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely.

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.

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.
52402

Disposal recommendations for packaging

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

14. Transport information**Land transport ADR/RID****14.1. UN number**

UN 1814

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14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

Label 8

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

8

Label 8

14.4. Packing group

II

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1814

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

8

14.4. Packing group

II

Air transport ICAO/IATA**14.1. UN number**

UN 1814

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

8

14.4. Packing group

II

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

VOC (CH) 0,0 %

VOC (EU) 0,0 %

16. Other information

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

R-phrases listed in Chapter 3

22	Harmful if swallowed.
35	Causes severe burns.

Hazard statements listed in Chapter 3

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

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.

