

Trade name: ecosol OSMO GL

Substance number: SUB0302022200000

Version: 1 / EU

Date revised: 14.04.2015

the date of issue: 14.04.15

Replaces Version: - / EU

Print date: 14.04.15

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

1.1. Product identifier

ecosol OSMO GL

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 for this SDS regulatoryaffairs@hagleitner.at

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 for this SDS regulatoryaffairs@hagleitner.at

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)

Acute Tox. 4	H302
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

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**Signal word**

Danger

Hazard statements

H302 Harmful if swallowed.
 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

For industrial application only.

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

22 Harmful if swallowed.
 34 Causes burns.

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)****Potassium hydroxide**

CAS No.	1310-58-3
EINECS no.	215-181-3
Registration no.	PRE
Concentration	>= 16 < 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 Irrit. 2	H315	<= 0,5 < 2
Skin Corr. 1B	H314	<= 2 < 5
Eye Irrit. 2	H319	<= 0,5 < 2

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 Oculist.

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.

7.3. Specific end use(s)

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

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
Gloves (alkali-resistant)			
Appropriate Material		neoprene	
Material thickness	=	0,35	mm
Breakthrough time	>	480	min

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Eye protection

Tightly fitting safety glasses

Body protection

Alkali-resistant protective clothing

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

Form	liquid
Colour	colourless
Odour	odourless
pH value	
Value	> 14
Concentration/H ₂ O	= 100 %
Temperature	= 20 °C
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
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	
Remarks	not determined

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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 1.958,82 mg/kg
35

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

Acute oral toxicity (Components)**Potassium hydroxide**Species rat
LD50 = 333 mg/kg**Acute dermal toxicity**

Remarks not determined

Acute inhalational toxicity

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Remarks not determined

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 (Components)****Potassium hydroxide**

LC50 = 80 mg/l

Duration of exposure = 96 h

Potassium hydroxide

Species guppy (Poecilia reticulata)

LC50 = 165 mg/l

Duration of exposure = 24 h

Algae toxicity

Remarks not determined

Bacteria toxicity (Components)**Potassium hydroxide**

Species Photobacterium phosphoreum

EC50 = 22 mg/l

Duration of exposure = 15 min

12.2. Persistence and degradability**General information**

No data available

12.3. Bioaccumulative potential**General information**

No data available

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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 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

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 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

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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 1814

14.2. UN proper shipping name

POTASSIUM 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****VOC**

VOC (CH) = 0 %

VOC (EU) = 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.

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.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4

Skin Corr. 1A Skin corrosion, Category 1A

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

CAS: Chemical Abstracts Service

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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.

