

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

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

### **1.1. Product identifier**

*ecosol POWER*

### **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.com  
Information provided Regulatory Affairs  
by / telephone  
E-mail address of regulatoryaffairs@hagleitner.com  
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 4343

## **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.

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## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### 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 [or 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; sodium hydroxide; ALCOHOL, C12/C15, ETHOXYLATED, PROPOXYLATED; phosphonic acid; sodium hydroxide

#### Supplemental information

For industrial application only.

## 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients \*\*\*

### 3.2. Mixtures

#### Chemical characterization

ecosol POWER

#### Hazardous ingredients \*\*\*

##### sodium hydroxide

CAS No.	1310-73-2				
EINECS no.	215-185-5				
Registration no.	01-2119457892-27				
Concentration	>= 25	<	50	%	
Classification	C, R35				

Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1A	H314
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Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

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the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

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

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

**potassium hydroxide**

CAS No. 1310-58-3

EINECS no. 215-181-3

Concentration &gt;= 5 &lt; 9,3 %

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)

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

**phosphonic acid**

CAS No. 13598-36-2

EINECS no. 237-066-7

Concentration &gt;= 1 &lt; 2,7 %

Classification Xn, R22  
C, R35

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

Acute Tox. 4	H302
Skin Corr. 1A	H314

**sodium hydroxide**

CAS No. 1310-73-2

EINECS no. 215-185-5

Registration no. 01-2119457892-27-XXXX

Concentration &gt;= 1 &lt; 2 %

Classification C, R35

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

Skin Corr. 1A	H314
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## Concentration limits (Regulation (EC) No. 1272/2008)

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

**ALCOHOL, C12/C15, ETHOXYLATED, PROPOXYLATED**

CAS No. 120313-48-6

Concentration &gt;= 1 &lt; 3 %

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

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the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

Classification Xi, R38  
N, R50

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

Aquatic Acute 1	H400
Eye Dam. 1	H318
Skin Irrit. 2	H315
Aquatic Chronic 3	H412

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

Aquatic Acute 1 M = 1

## **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. 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

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

### 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

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 original packaging. 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

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

## 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

### Body protection

Alkali-resistant protective clothing

## SECTION 9: Physical and chemical properties

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

Form	liquid
Colour	cream colour
Odour	Product specific

#### pH value

Value	>	14	
Concentration/H <sub>2</sub> O	=	100	%
Temperature	=	20	°C

#### 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	>	60	°C
Remarks	Not applicable		

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ECO

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Print date: 07.01.2022

**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. 1,47 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**

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

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

## **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.

### **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**

##### **ecosol POWER**

ATE	3.751,44	mg/kg
	13	

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

#### **Acute oral toxicity (Components)**

##### **potassium hydroxide**

Species	rat	
LD50	= 333	mg/kg

#### **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**



Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

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**

Species	guppy (Poecilia reticulata)			
LC50	=	165		mg/l
Duration of exposure	=	24	h	

**sodium hydroxide**

LC50	=	35	to	189	mg/l
Duration of exposure	=	96	h		
Source	Manufacturer's data				

**Daphnia toxicity (Components)****sodium hydroxide**

Species	Ceriodaphnia spec			
EC50	=	40,4		mg/l
Duration of exposure	=	48	h	
Source	Manufacturer's data			

**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

**Partition coefficient: n-octanol/water**

Remarks not determined

**12.4. Mobility in soil****General information**

No data available

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Substance number: SUB302022600000  
ECO

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Replaces Version: 2 / EU

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## 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

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Print date: 07.01.2022

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1719	1719	1719
14.2. UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, potassium hydroxide)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, potassium hydroxide)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, potassium hydroxide)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
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 Marpol 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, non-ionic surfactants

**15.2. Chemical safety assessment**

Trade name: ecosol POWER

Substance number: SUB302022600000  
ECO

Version: 3 / EU

Date revised: 27.05.2020

the date of issue: 08.10.19

Replaces Version: 2 / EU

Print date: 07.01.2022

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**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### **CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, Category 2

### **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.





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