

Trade name: ecosol ENTKALKER

Substance number: SUB302020180000

Version: 8 / EU

Date revised: 24.11.2015

the date of issue: 09.03.07

Replaces Version: 7 / EU

Print date: 22.12.15

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

### **1.1. Product identifier**

*ecosol ENTKALKER*

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

#### **Use of the substance/preparation**

Powerful, liquid descaler. 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)

Met. Corr. 1	H290
Skin Corr. 1B	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 \*\*\***

H290 May be corrosive to metals.  
 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 Phosphoric acid

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) \*\*\*****Phosphoric acid**

CAS No.	7664-38-2				
EINECS no.	231-633-2				
Registration no.	01-2119485924-24-XXXX				
Concentration	>= 25	<	50	%	

Classification (Regulation (EC) No. 1272/2008)  
 Skin Corr. 1B H314

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

Skin Irrit. 2	H315	<= 10 < 25
Skin Corr. 1B	H314	>= 25
Eye Irrit. 2	H319	<= 10 < 25

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

30 % and more:  
 phosphates  
 less than 5 %:  
 non-ionic surfactants

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely.

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**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, Gastrointestinal complaints

**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**

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. Avoid contact with skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product. 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). Pump off large amounts. 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.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Handle and open container with care. Observe the usual precautions for handling chemicals. Use only acid resistant equipment.

#### **Advice on protection against fire and explosion**

The product is not combustible. 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 acid-resistant floor.

#### **Hints on storage assembly**

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

#### **Further information on storage conditions**

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

### **7.3. Specific end use(s)**

Powerful, liquid descaler. 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**

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

#### **Respiratory protection**

Not necessary, but do not inhale vapours. Breathing apparatus in the event of aerosol or mist formation.

#### **Hand protection**

Gloves (acid-resistant)			
Appropriate Material	neoprene		
Material thickness	=	0,35	mm
Breakthrough time	>	480	min
Gloves (acid-resistant)			
Appropriate Material	butyl		
Material thickness	=	0,5	mm
Breakthrough time	>	480	min

#### **Eye protection**

Tightly fitting safety glasses

#### **Body protection**

Acid-resistant protective clothing

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## **SECTION 9: Physical and chemical properties**

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

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	slight, product specific
<b>pH value</b>	
Value	< 2,0
Concentration/H <sub>2</sub> O	100 %
Temperature	20 °C
Remarks	acidic
Value	appr. 3
Concentration/H <sub>2</sub> O	100 g/l
Temperature	20 °C
<b>Freezing point</b>	
Value	appr. -4 to 4 °C
<b>Sublimation point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Value	appr. 100 °C
<b>Flash point</b>	
Value	> 100 °C
Remarks	Not applicable
<b>Evaporation rate</b>	
Remarks	not determined
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
Not applicable	
<b>Upper/lower flammability or explosive limits</b>	
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	1,33 g/cm <sup>3</sup>
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	miscible in all proportions
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Decomposition temperature</b>	
Remarks	No decomposition if used as prescribed.

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**Viscosity**

Remarks not determined

**Oxidising properties**

evaluation None known

**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 alkalis. Reactions with various metals.

**10.2. Chemical stability**

Protect from extreme heat and cold.

**10.3. Possibility of hazardous reactions**

Protect from contamination.

**10.4. Conditions to avoid**

Keep at temperature not exceeding 30 °C. Do not store at temperatures below -5 °C.

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**10.5. Incompatible materials**

Corrosive to metals. Incompatible with alkaline substances .

**10.6. Hazardous decomposition products**

Hazardous determin decomposition products: Hydrogen

**Other information**

When diluting, add acids to water, never the other way around. Corrosive to metals.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**ATE 3.138,46 mg/kg  
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Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Phosphoric acid**

Species rabbit

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LD50 = 1530 mg/kg

**Acute dermal toxicity (Components)****Phosphoric acid**Species rabbit  
LD50 > 2000 mg/kg**Acute inhalative toxicity (Components)****Phosphoric acid**Species rat  
LC50 = 850 mg/l  
Duration of exposure = 2 h**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**

Product is severely caustic.

**Other information**

Product specific toxicological data are not known.

**SECTION 12: Ecological information****12.1. Toxicity****General information**

not determined

**Fish toxicity**Reference substance Phosphoric acid  
CAS No. 7664-38-2  
LC50 3,0 to 3,5 mg/l  
Duration of exposure 96 h**Fish toxicity (Components)****Phosphoric acid**LC50 = 138 mg/l  
Duration of exposure = 96 h**Daphnia toxicity**

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Reference substance	Phosphoric acid	
CAS No.	7664-38-2	
Species	Daphnia magna	
EC50	4,6	mg/l
Duration of exposure	12	h
Method	DIN 38 412	
Source	IUCLID	

**Bacteria toxicity**

Reference substance	Phosphoric acid	
CAS No.	7664-38-2	
Species	activated sludge	
EC50	270	mg/l

**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

**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. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. After an intended use this product can reach the watercourses.

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

EWC waste code 52102

Dispose of as hazardous waste.



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**Disposal recommendations for packaging**

EWC waste code 20 01 39 plastics  
 Uncontaminated packaging may be taken for recycling.

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

UN 1805

**14.2. UN proper shipping name**

PHOSPHORIC ACID, SOLUTION

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

Class 8

Label 8

**14.4. Packing group**

Packing group III

Limited Quantity 5 I

Transport category 3

**14.5. Environmental hazards**

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Tunnel restriction code E

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

UN 1805

**14.2. UN proper shipping name**

PHOSPHORIC ACID, SOLUTION

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

Class 8

**14.4. Packing group**

Packing group III

**14.5. Environmental hazards**

-

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

UN 1805

**14.2. UN proper shipping name**

PHOSPHORIC ACID, SOLUTION

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

Class 8

**14.4. Packing group**

Packing group III

**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**

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**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**

**30 % and more:**

phosphates

**less than 5 %:**

phosphonates, non-ionic surfactants

#### **Water Hazard Class (Germany)**

Water Hazard Class	WGK 1
(Germany)	

Remarks	Classification according to Annex 4 VwVwS
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#### **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.

#### **Hazard statements listed in Chapter 3**

H314	Causes severe skin burns and eye damage.
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#### **CLP categories listed in Chapter 3**

Skin Corr. 1B	Skin corrosion, Category 1B
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#### **Abbreviations**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Civil Aviation Organization

CAS: Chemical Abstracts Service

VOC: Volatile Organic Compound

INCI: International Nomenclature of Cosmetic Ingredients

ICAO: International Air Transport Association

NOEL: No observable effect level

NOEC: No observable effect concentration

LC: Lethal concentration

LC: Lethal concentration

DNEL: Derived no effect level

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

IMO: International Maritime Organization

PNEC: Predicted no effect concentration

EU: European Union

EC: European Community

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: \*\*\*

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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.

