

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.04.2016

Version number 18

Revision: 25.04.2016

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

1.1 Product identifier

Trade name: Entkalker

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

No further relevant information available.

Application of the substance / the mixture

Product is for professional use only.

Delimiting agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Renosan Chemie & Technik GmbH

Bodenseestr. 29

D-81241 München

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Renosan GmbH, Tel.: +49 (0) 800 736 6720 (kostenfrei)

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1.4 Emergency telephone number:

Berlin - Institut für Toxikologie - Klinische Toxikologie und Giftnotruf Berlin

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

phosphoric acid

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P314 Get medical advice/attention if you feel unwell.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures** Solution of anorganic acids, inhibitors and surfactants in water.**Dangerous components:**

CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24	phosphoric acid	⚠ Met. Corr.1, H290; Skin Corr. 1B, H314	15-30%
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Classification in accordance with Directive 648/2004:

Phosphates (as H ₃ PO ₄)	15 - 30%
phosphonates, non-ionic surfactants	< 5%

Additional information For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information** Instantly remove any clothing soiled by the product.**After inhalation** Supply fresh air; consult doctor in case of symptoms.**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.**After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** Wear self-contained breathing apparatus.**Additional information** Product is not combustible.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage systems or water bodies in great quantities.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, universal binder). Do not use combustible material like sawdust.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage**7.1 Precautions for safe handling** Do not mix with other products, especially strong alkalis.**Information about protection against explosions and fires:** No special measures required.

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7.2 Conditions for safe storage, including any incompatibilities**Storage****Requirements to be met by storerooms and containers:**

The official regulations for storage of chemicals hazardous to water must be observed.

Use only containers specifically permitted for this substance/product.

Information about storage in one common storage facility: Special Storage of hazardous substances.**Further information about storage conditions:**

Protect from frost.

Keep container tightly sealed.

Storage class TRGS 510: LGK 8B**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:****CAS: 7664-38-2 phosphoric acid**

WEL	Short-term value: 2 mg/m ³
	Long-term value: 1 mg/m ³

Additional information: The lists that were valid during the compilation were used as basis.**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Take off immediately all contaminated clothing

Keep away from foodstuffs, beverages and food.

Breathing equipment:

Use breathing protection only when aerosol or mist is formed.

Multi-purpose filter A-B-E-K

Protection of hands: Chemical resistant protective gloves (EN 374).**Material of gloves**

Chemical protection gloves of the category III in accordance with EN 374. Consider the data of the manufacturers at the permeability and break-through times as well as the special conditions on the job (mechanical load, contact duration)

Thickness: > 0.4 mm, Breakthrough time: > 480 min, Material: nitrile, butyl rubber

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses.**Body protection:** Wear suitable protective clothing.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	slightly like surfactant
Odour threshold:	Not determined

pH-value (10 g/l) at 20 °C: 1.8**Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	>100 °C
Crystallisation temperature / range:	<-10 °C

Flash point: Not applicable**Ignition temperature:** Not determined

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Decomposition temperature:	Not determined
Self-inflammability:	Product is not selfigniting.
Critical values for explosion:	
Oxidising properties	no
Density at 20 °C	1.2 g/cm ³
Solubility in / Miscibility with Water:	Fully miscible
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity No data for the preparation available.

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

The toxicological evaluation of the preparation took place in accordance with computation methods after GefStoffV / European Union preparing guideline.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

COD-value: 24 g O₂/kg product

General notes:

If product has entered water course untreated, noxious effects on fishes and water organisms are possible (pH-shift).

Product contains acids. Prior to discharging normally a neutralization is required.

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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation** Must be specially treated with regard to official regulations.**Waste disposal key number:**

The exact waste code must be agreed with the disposer.

Hazardous waste according to European Waste Catalogue (EWC).

European waste catalogue

Product:

200129 **cleaning agent containing dangerous substances****Uncleaned packagings:**

Contaminated packages must be completely emptied and may be reused after proper cleaning. Not cleanable packing disposal like the product.

Recommendation: Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number**

ADR, IMDG

UN1805

14.2 UN proper shipping name

ADR

1805 PHOSPHORSÄURE, LÖSUNG

IMDG

PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es)

ADR



Class

8 (C1)

Label

8

IMDG



Class

8

14.4 Packing group

ADR, IMDG

III

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user**Kemler Number:**

80

EMS Number:

F-A,S-B

Segregation groups

Acids

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

E

Remarks:

Dependent on the packing variant special arrangements for "limited quantities" and exemptions (addr Kap.3.4.) can be taken up.

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IMDG

Limited quantities (LQ)
Excepted quantities (EQ)

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

Signal word Danger**Hazard-determining components of labelling:**

phosphoric acid

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P314 Get medical advice/attention if you feel unwell.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

Water hazard class (Germany): Water hazard class 1 (Self-assessment): slightly hazardous for water.**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

The product contains no substances from SVHC list.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

The above information is based on our present knowledge about the product. It does not guarantee specific product features.

Full text of R-phrases listed in chapters 2 and 3:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Department issuing data specification sheet: Manufacturer**Reference to modifications:**

Please take notice of the changes made in compare to the last version from 17 in the following sections: 1.13

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals, Hazard Category 1
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Sources KC-552814r

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