

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Article no.: 23002

PREGAN PASTE

Date of print: 24.11.2012

Revision date: 21.11.2012

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

Article no. (manufacturer / supplier): 23002
Identification of the substance or preparation: PREGAN PASTE
Use of the substance/ preparation: Cleaning agent, alkaline For industrial purposes only.
Supplier (manufacturer/importer/downstream user/distributor):
KISSEL + WOLF GmbH
In den Ziegelwiesen 6 Telephone: 49 6222 578-0
69168 Wiesloch Telefax: 49 6222 578-100
Dept. responsible for information:
EHS E-mail: ehs@kiwo.de
Environment-Health-Safety Emergency telephone: +49 6222 578 219

2. Hazards identification

Hazard designation:



C Corrosive

Information pertaining to special dangers for human and environment

35 Causes severe burns.

3. Composition/ Information on ingredients

chemical characterization (preparation)

Description: Mixture of components, as listed below, with nonhazardous constituents

Hazardous ingredients:

| EC No: CAS No.: | Identification of the hazard: R phrases: | Labelling (67/548/EEC or 1999/45/EC) Remark: | % by weight |
|-------------------------|---|---|-------------|
| 215-185-5 1310-73-2 | sodium hydroxide 35 | C | 20 - 25 |
| | isotridecanol, ethoxylated, polymer 22-41 | Xn | 2,5 - 5 |
| 248-406-9 27323-41-7 | Dodecylbenzenesulphonic acid, compound with 2.2',2"-nitriolo triethanol (1:1) 38-41 | Xi | 2,5 - 5 |
| 269-144-1 68188-18-1 | Paraffin oils, sulfochlorinated, saponified 22-36/38 | Xn | 1 - 2,5 |
| 204-798-3 126-71-6 | triisobutyl phosphate 43 | Xi | 0,5 - 1 |

Additional information

Full text of R-phrases: see section 16.

4. First-aid measures

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Take off immediately all contaminated clothing.

In case of eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.

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After ingestion:

Consult physician immediately.

Do not induce vomiting.

5. Firefighting measures

Suitable extinguishing media:

Carbon dioxide (CO₂). Water mist Foam.

Extinguishing media which must not be used for safety reasons:

Strong water jet.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Gases/vapours, toxic. Heating causes rise in pressure with risk of bursting.

Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information:

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

Personal precautions

Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

7. Handling and storage

Handling

Advices on safe handling

Avoid contact with skin and eyes. Do not inhale vapours or mist. Avoid the formation of aerosol. Do not mix with other chemicals.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to chapter 8.

Follow the legal protection and safety regulations.

Storage

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storerooms and containers:

Always keep in containers that correspond to the material of the original container.

Hints on joint storage

Do not store together with:

Acids, Oxidising agent.

Further remarks:

VCI-storage class, see Chapter 15

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8. Exposure controls / Personal protection

Provide good ventilation. This can be achieved with local or room suction. Do not breathe vapour or spray.

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

| EC No: | Description: | MAK | 2 mg/m ³ |
|-----------|------------------|-----|---------------------|
| 215-185-5 | sodium hydroxide | | |
| 1310-73-2 | | | |

Personal protection equipment

Respiratory protection:

When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used.

Hand protection:

Chemical resistant protective gloves: DIN EN 374
Recommendation for contact by spatter: Protection Index 2
Permeation time >30 min., e.g. butyl rubber 0,4 mm
Recommendation for direct contact: Protection Index 6
Permeation time >480 min., e.g. nitrile rubber 0,4 mm

Eye protection:

Tightly sealed safety glasses. DIN EN 166

Body protection:

Protective clothing: alkali-resistant.

Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

Environmental exposure controls

Avoid release to the environment.

9. Physical and chemical properties

Appearance:

Physical state: liquid
Colour: depending on coloration
Odour: typical

| Safety relevant basis data | Method | Remark: |
|---|-------------------------------|-----------|
| Flash point: | n.a. °C | DIN 53213 |
| Vapour pressure at 20 °C | 11,39 | |
| Density: | 1,35 g/cm ³ (20°C) | |
| Boiling temperature / boiling range: | 100 °C (101,3 kPa) | |
| Water solubility (g/l): | very soluble. | |
| pH: | 14,00 (20°C) | |
| Viscosity: | n.a. | |

10. Stability and reactivity

Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

Materials to avoid

Acids, Oxidizing agents.
Alkaline earth metals.
Light metals.

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11. Toxicological information

Practical experience

Other observations:

Causes severe skin burns and eye damage.

Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. Ecological information

Overall evaluation:

Do not allow to enter into surface water or drains.

Do not store at public landfills.

The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised.

Results of PBT assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

13. Disposal considerations

Appropriate disposal / Product

Recommendation:

Control report for waste code/ waste marking according to EAKV:

070601 aqueous washing liquids and mother liquors

Contaminated packaging:

Recommendation: Cleaned containers may be recycled. Vessels not properly emptied are special waste.

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14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

Land transport (ADR/RID)

Class: 8
Hazard label: 8
UN-No.: 3266
Hazard identification number (Kemler No.): 80
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.
contains: sodium hydroxide solution
triisobutyl phosphate
Packing Group: II
Tunnel restriction code: E

Sea transport (IMDG)

Class: 8
Hazard label: 8
IMDG-CODE-Class: F-A, S-B
UN-No.: 3266
Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
contains: sodium hydroxide solution
triisobutyl phosphate
Packing Group: II
Marine pollutant: n.a.

Air transport (ICAO-TI / IATA-DGR)

Class: 8
Hazard label: 8
UN-No.: 3266
Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s.
contains: sodium hydroxide solution
triisobutyl phosphate
Packing Group: II

15. Regulatory information

Observe in addition any national regulations!

Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Storage class:

8 B
(VCI-concept for storage of chemicals in one common storage facility)

Class: I: 0 % II: 0 % III: 0 %

VbF classification:

n.a.

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s) and hazard identifier(s) for dangerous materials and preparations:



C Corrosive

Contains:
sodium hydroxide

R phrases:

35 Causes severe burns.

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Safety precautions:

- 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).

Special provisions concerning the labelling of certain mixtures

- 99 Contains triisobutyl phosphate. May produce an allergic reaction.

Other regulations (EU):

VOC

VOC-value (in g/l): 7,330

16. Other information

Wording of the r-phrases under paragraph 3:

- 35 Causes severe burns.
43 May cause sensitization by skin contact.
22 Harmful if swallowed.
41 Risk of serious damage to eyes.
36/38 Irritating to eyes and skin.
38 Irritating to skin.

Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.