

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.08.2009

Revision: 20.08.2009

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

- Product details

- Trade name: Penta-Basis

- Application of the substance / the preparation

special detergent
for professional use

- Manufacturer/Supplier:

BurnusHychem GmbH
Karl-Winnacker-Str. 22
D-36396 Steinau an der Straße
Telefon: +49-66 63-976-100

Telefax: +49-66 63-976-101

- Further information obtainable from: Telefon: +49-66 63-976-100

- Department issuing MSDS: info@chemie1.de

- Information in case of emergency:

Beratungsstelle bei Vergiftungen, Universitätsklinikum Mainz
Telefon: 06131-19240

2 Hazards identification

- Hazard description:

C Corrosive

- Information concerning to particular hazards to man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 34 Causes burns.

R 37 Irritating to respiratory system.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- Chemical characterization

- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 10213-79-3 EINECS: 229-912-9	disodium metasilicate pentahydrate	C, Xi; R 34-37	≥30%
Polymer	fatty alcohol ethoxylate (>5 - 20 EO)	Xn, Xi; R 22-41	<5%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6	sodium hydroxide	C; R 35	<5%

- Regulation (EC) No 648/2004 on detergents:

phosphates	15 - 30%
non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof	< 5%
optical brighteners	

- Additional information: For the wording of the listed risk phrases refer to section 16.

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4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
After contact with skin, wash immediately with plenty of soap and water.
If skin irritation continues, consult a doctor.
- **After eye contact:**
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Product forms slippery surface when combined with water.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Flush away residues with plenty of water.
Dispose contaminated material as waste according to item 13.
Use neutralizing agent.
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 10 for information on "stability and reactivity".
See Section 13 for disposal information.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Provide alkali-resistant floor.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in dry conditions.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- Ingredients with limit values that require monitoring at the workplace:	
1310-73-2 sodium hydroxide	
MAK (Germany)	vgl. Abschn. IIb
WEL (Great Britain)	Short-term value: 2 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

- **Respiratory protection:** When dust is formed: Use a breathing protection

- **Protection of hands:**

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **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 goggles

- **Body protection:** Use protective suit.

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9 Physical and chemical properties

- General Information

Form: Powder
Colour: Yellow
Odour: Weak, characteristic

- Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:**
- **Bulk density at 20°C:** 850 kg/m³
- **Solubility in / Miscibility with water:** Soluble.
- **pH-value (10 g/l) at 20°C:** 12 - 13

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Materials to be avoided:** acids
- **Dangerous reactions**
Strong exothermic reaction with acids.
Reacts with metals forming hydrogen.
- **Dangerous decomposition products:**
Decomposition may cause violent formation of gases.
No dangerous products of decomposition if used and stored according to specifications.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Caustic effect on skin and mucous membranes.
 - **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.
No experimentally found toxicological data are available for this preparation.

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12 Ecological information

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized.

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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- Product:

- Recommendation Disposal must be made according to official regulations.

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 8 (C6) Corrosive substances.

- Danger code (Kemler): 80

- UN-Number: 3262

- Packaging group: III

- Hazard label 8

- Description of goods: 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE, SODIUM HYDROXIDE)

- Limited quantities (LQ) LQ24

- Transport category 3

- Tunnel restriction code E

15 Regulatory information

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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- Code letter and hazard designation of product:

C Corrosive

- Hazard-determining components of labelling:

disodium metasilicate pentahydrate
sodium hydroxide

- Risk phrases:

34 Causes burns.
37 Irritating to respiratory system.

- Safety phrases:

22 Do not breathe dust.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
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).

- National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases

22 Harmful if swallowed.
34 Causes burns.
35 Causes severe burns.
37 Irritating to respiratory system.
41 Risk of serious damage to eyes.