

MATERIAL SAFETY DATA SHEET-v4

Product Pepsin diluent (1 N HCl solution)

Cat. no. R018R.0000

**Pan
Path**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the product

Name : Pepsin diluent (1 N HCl solution)

Product code : R018R.0000

Produced and Marketed by

PanPath B.V.

Science Park Amsterdam

Kruislaan 406, 1098 SM Amsterdam, the Netherlands

Tel +31 20 751 2030 - Fax +31 20 751 2031

2. COMPOSITION AND INFORMATION ON INGREDIENTS

- Hydrochloric acid (CAS-No. 7647-01-0; EC-index-No. 017-002-01-X; R: 34-37; S: C)

3. IDENTIFICATION OF HAZARDS AND EFFECTS

Conditions to avoid

Overheating.

Substances to avoid

Al, Amines, Carbids, Fluoride, All kinds of metal compounds, KMnO₄, Strong base, Salts of halogenic oxygen acids, Sulfuric acids, aldehydes, Sulfide, Lithiumsilicid, Vinylethylether.

Hazardous combustion or decomposition products

Ammonia, carbon monoxide and hydrogen cyanide.

Fire and explosion hazards

Flammable. Emits toxic fumes under fire conditions. Keep away from inflammable sources.

4. FIRST AID MEASURES

| EXPOSURE | FIRST AID MEASURES |
|--------------|---|
| Inhalation | Fresh air. Consult doctor if feeling unwell. |
| Eye contact | Flush with copious amounts of water with eyelid held wide open for at least 15 minutes. Summon eye specialist if necessary. |
| Skin contact | Wash with copious amounts of water. Remove contaminated clothing. |
| Ingestion | Summon doctor immediately! Make victim drink plenty if water. Watch out for vomiting: danger of breathing difficulties. Keep bronchial tubes free. |

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : water spray.

Special fire fighting procedure : not required.

6. ACCIDENTAL RELEASE MEASURES

Take up with liquid-absorbent material. Forward for disposal and clean up affected area. Replace contaminated clothing immediately.

MATERIAL SAFETY DATA SHEET-v4

Product Pepsin diluent (1 N HCl solution)

Cat. no. R018R.0000

7. HANDLING & STORAGE INFORMATION

Handling information

No special requirements.

Storage information

Store at 2-8 °C.

8. PERSONAL PRECAUTIONS & PROTECTION

Personal precautions

The usual precautions taken when handling chemicals should be observed. Refer to product data sheet for recommended specific use. Do not inhale vapors, do not get in eyes, on skin or clothing. Wash hands thoroughly after handling.

Personal protection

Respiratory protection : required when vapors/aerosols are generated. Preferably work in a chemical fume hood or wear adequate mask with filter (according to DIN 3181 for vapors of organic compounds).

Skin protection : Required. Wear suitable protective clothing and gloves.

Eye protection : Required. Wear safety glasses or goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|-------------------|-----------------------------|------------------------|
| Appearance: | liquid | Flashing point: | no data available |
| Color: | colorless | Explosion limits | no data available |
| Odor: | penetrating smell | Vapor pressure (20°C, 32%): | _20 mbar |
| pH (20°C, 32%): | _ 1 | Relative density (32%): | _1.16g/cm ³ |
| Viscosity _{dynamic} (20°C): | no data available | Solubility in water: | completely |
| Boiling point (32%): | 85°C | log P(o/w): | no data available |
| Melting point (32%): | -40°C | | |
| Autoflammability: | no data available | | |

10. STABILITY & REACTIVITY

Stability

Heat-sensitive, Hygroscopic; The product is stable when stored under the recommended conditions.

Reactivity

No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological information

Strong corrosive substance.

LC₅₀ (fish): 862 mg/l

Subacute/chronic toxicity

Teratogenic effects are not to be expected by concentrations below the MAC-value.

Acute effects

MATERIAL SAFETY DATA SHEET-v4

Product Pepsin diluent (1 N HCl solution)

Cat. no. R018R.0000

**Pan
Path**

May be harmful by inhalation, ingestion or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation.

Chronic effects

May cause birth defects.

12. ECOLOGICAL INFORMATION

Biologic degradation : no data available.
Behavior in environmental compartments : Evaluation No.: (D)(fish): 3.1 (calculated on pure substance).
Ecotoxic effects : Poisonous for water organisms. Toxicological on fish and plankton.

13. DISPOSAL CONSIDERATIONS

Product: there are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: disposal in accordance with local provisions. Contaminated packages should be treated the same as the product itself.

14. TRANSPORT INFORMATION

This product is not subject to current regulations for transportation of hazardous goods.

15. REGULATORY INFORMATION

Labeling according to ECC directives.

| <u>R</u> | <u>S</u> | <u>SYMBOL</u> |
|----------|----------|---------------|
| 34, 37 | | |

Label precautionary statements: harmful by inhalation, in contact with skin and if swallowed. May cause birth defects. Irritating to eyes, respiratory system and skin.

16. ADDITIONAL INFORMATION (IF APPLICABLE)

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. We make no warranty express or implied, with respect to the information and assume no liability. Product users should determine the suitability of this information for their own uses.