

MATERIAL SAFETY DATA SHEET-v4

Product PanWash

Cat. no. R013R.0000, R014R.0000

Pan Path

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

Identification of the product

Name : PanWash

Product code : R013R.0000 (B/D), R014R.0000 (B/D)

Produced and Marketed by

PanPath B.V.

Science Park Amsterdam

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

- Formamid (CAS-No. 75-12-7; EINECS-No. 200-842-0; Molecular weight 45.04; Molecular formula HCONH₂)
- Sodium Chloride
- Tri-Sodium Citrate Dihydrate

3. IDENTIFICATION OF HAZARDS AND EFFECTS

Conditions to avoid

Overheating. Hygroscopic; explosive with air in vapor/gassy phase. Acids.

Substances to avoid

Incompatible with strong oxidizing agents, Iodine/ pyridine/sulfur trioxide, water separating agents.

Hazardous combustion or decomposition products

Ammonia, carbon monoxide and hydrogen cyanide. Nitrogen oxides, nitrogen and nitrogen acids.

Fire and explosion hazards

Inflammable. 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 of water. Watch out for vomiting: danger of breathing difficulties. Keep bronchial tubes free. |

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : water spray, carbon dioxide, dry chemical powder or appropriate foam.

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.

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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: | odorless | Vapor pressure (20°C): | no data available |
| pH (20°C) | 7 | Relative density: | no data available |
| Viscosity _{dynamic} (20°C): | no data available | Solubility in water: | completely |
| Boiling range: | no data available | log P(o/w): | no data available |
| Melting point: | no data available | | |
| Autoflammability: | no data available | | |

10. STABILITY & REACTIVITY

Stability

Heat-sensitive, hygroscopic; explosive with air in vapor/gassy phase.

Reactivity

No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological information

A description of any toxic symptom is not available. Preparation is moderately irritating to skin and mucous membranes.

Acute toxicity: LD₅₀ (oral, rat): 5800 mg/kg
LD₅₀ (dermal, rabbit): 17000 mg/kg

Chronic toxicity: embryotoxic effects in animal experimental research.

Effects of metabolites: highly toxic.

Acute effects

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

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respiratory tract. Causes skin irritation.

Chronic effects

May cause birth defects.

12. ECOLOGICAL INFORMATION

Biologic degradation : no data available.

Behavior in environmental compartments : no data available.

Ecotoxic effects : when handled properly, no impairments in the function of adapted biological waste-water-treatment plants are to be expected.

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> |
|----------|----------|---------------|
| 61 | 53-45 | T |
| 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.