

SAFETY DATA SHEET

REAGENT PB 2

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Revision No: 1

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

Product name: REAGENT PB 2

Product code: rt

Use / description of product: Corrosive. Fuming liquid.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: NITRIC ACID 30-60%

CAS: 7697-37-2

EINECS: 231-714-2

[O] R8; [C] R35;

Ingredient 2: RAW AMMONIUM METAVANADATE <10%

CAS: 7803-55-6

EINECS: 232-261-3

[T] R23/24/25; [Xi] R36/37; [Xi] R41;

3. HAZARDS IDENTIFICATION

Main hazards: Causes severe burns.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Severe burns may occur. Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be congestion of the lungs causing severe shortness of breath.

4. FIRST AID MEASURES (ACTION)

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: If conscious, give 1 pint of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

[cont...]

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water ONLY

Exposure hazards: In combustion emits toxic fumes. May ignite combustible material

Protection of fire-fighters: Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not allow large quantities to enter local drainage systems Do not discharge into drains or rivers.

Clean-up procedures: Neutralise with dilute sodium hydroxide solution testing with litmus paper periodically. Wash down the drain with large amounts of water. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance.

Storage conditions: Keep container tightly closed. Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging. Do not use steel containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Positive pressure hood

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Fuming liquid.

Colour: Colourness to pale yellow

Odour: Odourless

Solubility in water: Miscible in all proportions

pH: 0-1

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Bases. Combustibles

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Ingredient 2: RAW AMMONIUM METAVANADATE

IHL RAT LD50 7800µg/kg

IPR RAT LD50 18mg/kg

IVN RAT LD50 3690mg/kg

ORL MUS LD50 25mg/kg

ORL RAT LD50 581000µg/kg

SCU RAT LD50 23mg/kg

SKN RAT LD50 2102mg/kg

12. ECOLOGICAL INFORMATION**Mobility:** Non-volatile.**Persistence and degradability:** Biodegradable.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Harmful to aquatic organisms. Harmful to animals.**13. DISPOSAL CONSIDERATIONS****Waste disposal:** Neutralise with excess sodium bicarbonate solution. Flush liquors to drain, local regulations permitting, or send to a waste water treatment plant.**Disposal of packaging:** Dispose of as normal industrial waste.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 2031**ADR Class:** 8**Hazard ID no:** 80**Labelling:** 8**Shipping name:** NITRIC ACID WITH <70% PURE ACID**IMDG / IMO****UN no:** 2031**Class:** 8**Packing group:** II**EmS:** 8-03**Marine pollutant:** NO**Labelling:** 8**IATA / ICAO****UN no:** 2031**Class:** 8**Packing group:** II**Packing instructions:** 813**Quantity:** 30 L**Labelling:** 8**15. REGULATORY INFORMATION****Hazard symbols:** Corrosive.**Risk phrases:** R35: Causes severe burns.

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Safety phrases: S2: Keep out of the reach of children.
S23: Do not breathe vapour.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. ADDITIONAL INFORMATION

Risk phrases used in s.2: R8: Contact with combustible material may cause fire.
R35: Causes severe burns.
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
R36/37: Irritating to eyes and respiratory system.
R41: Risk of serious damage to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.