

SAFETY DATA SHEET

NITRIC ACID...60%

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Issued: 01/01/2002

Revision No: 1

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

Product name: NITRIC ACID...60%

CAS number: 7697-37-2

EINECS number: 231-714-2

Index number: 007-004-00-1

Synonyms: AQUA FORTIS

Company name: Cannock Chemicals Ltd

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2. HAZARDS IDENTIFICATION

Main hazards: Contact with combustible material may cause fire. Causes severe burns.

Workplace exposure limit: This substance has a workplace exposure limit: (UK: WEL 8 hr exposure 5.2 mg/m3).

PBT: This substance is not identified as a PBT substance.

Directive 1999/45/EC: This preparation meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

Other hazards: Hygroscopic: readily absorbs water from air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. 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: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

[cont...]

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Alcohol or polymer foam.

Exposure hazards: Corrosive. In combustion emits toxic fumes of nitrogen oxides.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all sources of ignition. Evacuate the area immediately.

Environmental precautions: Do not discharge into drains or rivers.

Clean-up procedures: Transfer to a suitable container. Wash down the drain with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Smoking is forbidden.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Avoid contact with water or humidity.

Suitable packaging: Do not use steel containers. Do not use aluminium containers. Glass.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits: NITRIC ACID...60%
UK - 8 hour TWA: 5.2 mg/m³
UK - 15 min. STEL: 10 mg/m³

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

Respiratory protection: Self-contained breathing apparatus must be used in handling.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Yellow

Odour: Pungent
Evaporation rate: Negligible
Oxidising: Oxidising (by EC criteria)
Solubility in water: Miscible in all proportions
Viscosity: Viscous

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: Bases. Water. Aluminium. Magnesium. Zinc. Copper.
Haz. decomp. products: In combustion emits toxic fumes of nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute effects: Causes severe burns.

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. There may be **redness** or **whiteness** of the skin in the area of exposure. **Blistering** may occur. **Severe** burns may occur.

Eye contact: There may be irritation and pain. The eyes may water profusely. **Corneal** burns may occur.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. **Nausea** and stomach pain may occur. There may be vomiting. **Blood** may be vomited.

Inhalation: There may be a feeling of tightness in the chest with **shortness of breath**. Exposure may cause coughing or wheezing. There may be **congestion of the** lungs causing severe shortness of breath. There may be loss of consciousness.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water. Absorbed only slowly into soil.
Other adverse effects: Harmful to fauna.
PBT identification: This substance is not identified as a PBT substance.

13. DISPOSAL CONSIDERATIONS

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

[cont...]

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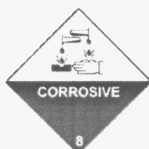
Packing group: I

Classification code: CO1

Shipping name: NITRIC ACID

Labelling: 8+5.1

Hazard ID no: 885



IMDG / IMO

UN no: 2031

Class: 8

Packing group: I

EmS: F-A,S-Q

Marine pollutant: NO

Labelling: 8+5.1

IATA / ICAO

UN no: 2031

Class: 8

Packing group: I

Subsidiary risk: 5.1

Packing instructions: FORBIDDEN(P&CA); 809

Labelling: 8+5.1

15. REGULATORY INFORMATION

Hazard symbols: Oxidising.

Corrosive.



Risk phrases: R8: Contact with combustible material may cause fire.

R35: Causes severe burns.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

S23: Do not breathe ...

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

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. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

* indicates text in the SDS which has changed since the last revision.

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.