

**Material Safety Data Sheet**

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**MATERIAL SAFETY DATA SHEET**  
**NITRIC ACID 1.0M STD SOLUTION**

Sent to: Impact Test Equipment

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**1. IDENTIFICATION OF CHEMICAL**

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**Chemical name:** NITRIC ACID 1.0M STD SOLUTION**Stock code:** CN4860      CH080

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**2. COMPOSITION**

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**Composition:** Nitric Acid in water

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**3. HAZARD IDENTIFICATION**

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**Main hazards:** May cause irritation to skin and eyes

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**4. FIRST AID MEASURES**

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**Skin contact:** In the case of skin contact, flood the splashed area with large quantities of running water.**Eye contact:** If the substance has entered the eyes, wash out with water or saline solution for at least 15 minutes.**Ingestion:** If the chemical has been confined to the mouth give large quantities of water as a mouth wash. Ensure that the mouth wash is not swallowed. If the chemical has been swallowed, give about 250ml of water to dilute it in the stomach. In severe cases obtain medical attention.**Inhalation:** Remove the casualty out of the danger area after first ensuring your own safety. Loosen the patient's clothing. If the casualty is unconscious, place in the recovery position and monitor breathing. Apply artificial respiration only if patient is not breathing. Seek medical attention when anyone has symptoms apparently due to swallowing or inhalation.

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**5. FIRE FIGHTING MEASURES**

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**Exposure hazards:** Not itself combustible but assists fire in burning materials. Many reactions may cause fire and explosions.

[cont...]

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**Suitable extinguisher:** Use extinguishing media appropriate to the surrounding fire conditions.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal protection:** Wear self-contained breathing apparatus, boots and gloves.

**Leaks & spills:** Absorb into dry earth or sand. Transfer to a closable salvage container for disposal by an appropriate method or retain for recovery.

**Clean-up procedures:** Wash the spillage site with large amounts of water.

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**7. HANDLING AND STORAGE**

**Handling requirements:** Wear eye protection, gloves and protective clothing. Use only under a fume extraction hood or in a fume cupboard.

**Storage precautions:** Keep containers closed. Store in a cool, dry, well ventilated area well away from heat or other sources of ignition.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protection:** Wear self-contained breathing apparatus, boots and gloves.

**Exposure limits:** 2 ppm - TWA; 4 ppm - 15 min.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance and odour:** Colourless liquid.

**Solubility:** Miscible with water.

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**10. STABILITY AND REACTIVITY**

**Stability:** Becomes yellow on storage.

**Avoid contact with:** Heat and other sources of ignition.

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**11. TOXICOLOGICAL INFORMATION**

**Health effects: Skin:** The liquid may cause some irritation to the skin

**Eyes:** The liquid is extremely destructive to eyes. In severe cases it will cause corneal burns which may result in impairment or loss of sight.

**Inhalation:** Harmful if inhaled. Inhalation of the vapour will cause irritation and damage to the lining of the air passages. Symptoms may include coughing, wheezing, laryngitis, shortness of breath and headaches.

**Ingestion:** Harmful if swallowed. If swallowed there is immediate severe irritation and damage. Symptoms include headache, nausea and vomiting.

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**12. ECOLOGICAL EFFECTS**

**Ecotoxicity:** Data not available.

**Persistence:** Data not available.

**Appraisal:** Data not available.

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**13. DISPOSAL CONSIDERATIONS**

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**Waste disposal:** May be disposed of by diluting greatly with water (final concentration < 2%).  
Neutralise with sodium carbonate or 5% sodium hydroxide solution and run to waste  
with large volumes of water.

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**14. TRANSPORT INFORMATION**

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**IMDG code**

**Packing group:** II

**Class:** 8

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**ADR / RID**

**Class+Item no:** 8,2(b)

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**IATA / ICAO**

**Index no:** 007697-37-2

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**15. REGULATORY INFORMATION**

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**Classification:** No Significant Hazard

**Risk phrases:** R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety phrases:** S24/25: Avoid contact with skin and eyes.

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**16. ADDITIONAL INFORMATION**

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**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.  
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