

MATERIAL SAFETY DATA SHEET

Date of Issue: 14/01/2008

STATEMENT OF HAZARDOUS NATURE

Hazardous according to criteria of Work safe Australia. This product becomes non-hazardous at concentrations below 3.3%.

COMPANY DETAILS

Company Jaegar Australia
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IDENTIFICATION

PRODUCT NAME: Nitric Acid

Other Names:

Manufacturer's Code: Nitric Acid

Un No: 2031

Dangerous Goods Class

& Subsidiary Risk: Corrosive 8

Packaging Group: II

Hazchem Code: 2PE

Poisons Schedule: S6

Use: General chemical.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance: Colourless/Pale Yellow Liquid
Melting Point: N/A
Vapour Pressure: >1
Specific Gravity: 1.361
Flash Point: N/A
Flammability Limits: N/A
Solubility in water: Complete.

Other Properties:

Corrosiveness: Corrosive to most metals.
Reactivity: Contact with combustible material may cause fire
PH (undiluted): Not available.

INGREDIENTS

Chemical name and CAS No as defined by the NOHSC Code 1008 list all hazardous substances. Other ingredients which are determined to be non-hazardous are listed by generic name or as "other ingredients determined not to be hazardous".

CHEMICAL NAME	CAS NO	PROPORTION
Nitric Acid	7696-37-2	70%
Water	7732-18-5	Balance

HEALTH HAZARD INFORMATION

Health Effects

Acute: No adverse health effects if the product is handled in accordance with this safety data sheet and the product label. Symptoms that may arise if the product is mishandled are:

SWALLOWED: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions and chemical burns to gastro intestinal tract.

EYE: Contamination of the eyes can result in permanent injury. Corrosive to eyes, contact can cause corneal burns.

SKIN: Corrosive to skin, may cause skin burns.

INHALED: Inhalation of fumes, mist or aerosols may produce respiratory tract irritation. Fumes are corrosive to the respiratory tract and will cause severe coughing, sore throat and laboured breathing. Delayed pulmonary oedema may result.

CHRONIC: Repeated exposure to fumes, mist or aerosols may produce adverse effects on the lungs and erosion of teeth.

FIRST AID

SWALLOWED: Contact a doctor or Poisons Information Centre. Immediately rinse mouth with water. Give patient plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.

EYE: Remove contact lenses if worn. Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Transport to hospital or medical centre.

SKIN: Remove all contaminated clothing and shoes. Immediately wash contaminated skin with plenty of water. Wash all contaminated clothing before re-use. If redness, blistering or irritation occurs seek medical advice. For skin burns, immediately flood burnt area with plenty of water and cover with a clean dry dressing. Seek immediate medical advice.

INHALED: Remove victim from exposure – avoid becoming a casualty. Allow patient to become comfortable and warm. Keep at rest until fully recovered. For all symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

First Aid Facilities: Eye wash. Fresh water.

PRECAUTIONS FOR USE

EXPOSURE: No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia). TWA is 5.2mg/m³. STEL is 4ppm 10mg/m³.

ENGINEERING CONTROLS: Ensure adequate ventilation to maintain air concentrations are controlled below quoted exposure standards.

PERSONAL PROTECTION: Avoid contact with the skin and eyes. Avoid breathing its mist. Wear face shield, overalls or apron and protective footwear. Wear natural rubber, neoprene, nitrile or PVC gloves when using undiluted product. If risk of inhalation of spray mists exists, wear respiratory mask meeting the requirements of AS 1715 and AS 1716.

FLAMMABILITY: Not flammable.

SAFE HANDLING INFORMATION

STORAGE & TRANSPORT: Corrosive 8. Hazchem 2PE.

Packaging Group II. Dangerous substance for the purpose of transport. Must be stored and transported in accordance with State or Territory Dangerous Goods Regulations. Not to be loaded with explosives.

SPILLS & DISPOSAL: Clear area of all unprotected personnel. Increase ventilation. Contain. Prevent contamination of drains and waterways. Use absorbent (sand, soil, vermiculite or other inert material). Neutralise with lime or soda ash. Collect and seal into properly labelled containers for waste disposal. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services.

FIRE/EXPLOSION HAZARD: Non-combustible, but will support combustion of other materials. Decomposes on heating emitting toxic fumes including nitrogen oxides and hydrogen. If safe, remove containers from fire. Keep containers cool with water spray. Use water fog, foam or dry agent.

OTHER INFORMATION:

The Time Weighted Average (TWA) quoted above is the Work safe Adopted National Exposure Standard for the average airborne concentration when calculated over a normal eight-hour working day, for a five-day working week.

This MSDS is valid for five years from date of issue but readers should contact Jaegar Australia to ensure that this is the latest issue. As per the Work safe Guidance Note NOHSC 3017, each user should review the information in the specific context of the intended application.

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