
1. PRODUCT AND COMPANY IDENTIFICATION

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|--------------|--|
| Product name | Niric Acid |
| Grade | ACS, HPLC, Pesticide, Anapremium, Dehydrous, LCMS, UPLC, Trace metal, Trace metal Plus |
| Company | Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA |
| Telephone | (281) 668-0032 |
| Fax | (281) 668-0033 |

2. COMPOSITION/ INFORMATION ON INGREDIENTS

| | |
|---------------|------------------|
| Formula | HNO ₃ |
| CAS-No. | 7697-37-2 |
| Index-No. | 007-004-00-1 |
| Ec-No. | 231-714-2 |
| Concentration | > 95 % |

3. HAZARDS IDENTIFICATION**GHS Classification**

| | |
|-------------------|-------------|
| Oxidizing liquids | Category 3 |
| Skin corrosion | Category 1A |

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. Causes severe burns..

4. FIRST AID MEASURES

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| Inhalation | If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Ingestion | Rinse mouth with water. Consult a physician immediately. |
| Skin Contact | Immediately wash off with plenty of water for at least 15 minutes. Consult a physician. |
| Eye Contact | Rinse through with plenty of water for at least 15 minutes. Consult a physician. |
| Note to Physician | Treat symptomatically |

Most important symptoms and effects, both acute and delayed

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, pneumonitis, Symptoms and signs of poisoning are:, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed., Large doses may cause: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure, leading to collapse, coma, and possibly death.

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide |
| Special protective equipment for fire-fighters | Wear self contained breathing apparatus for fighting if necessary. Use water spray to cool unopened containers. |

6. ACCIDENTAL RELEASE MEASURES

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|---------------------------|--|
| Personal precautions | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental precautions | Do not let product enter drains |
| Methods for cleaning up | Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

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|----------|--|
| Handling | Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. |
| Storage | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

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| Engineering Measures | Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. |
|----------------------|--|

Personal protective Equipment

| | |
|--------------------------|--|
| Respiratory protection | Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup |
| Hand protection | Wear appropriate protective gloves. |
| Eye protection | Tightly fitting safety glasses. |
| Skin and body protection | Complete suit protecting against chemicals. Protective clothes should be selected specifically for work place according to concentration and quantity of chemical handled. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of working day. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-------------------------|--|
| Form | Liquid |
| Color | No data available |
| pH | < 1 at 20 °C |
| Oxidizing properties | The substance or mixture is classified as oxidizing with the subcategory 2 |
| Melting point | No data available |
| Boiling point | 100 °C at 1,013 hPa |
| Flash point | No data available |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapor pressure | 11 hPa at 20 °C |
| Density | 1.48 g/cm ³ |
| Water solubility | Completely soluble |
| Relative vapour density | No data available |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Storage stability | No information available |
| Conditions to avoid | May discolor on exposure to air and light. |
| Materials to avoid | Alkali metals, Organic materials, Acetic anhydride, Acetonitrile, Alcohols, Acrylonitrile |
| Hazardous decomposition products | No information available |

11. TOXICOLOGICAL INFORMATION

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|--------------------------|---|
| Acute toxicity | No information available |
| Skin irritation | No information available |
| Carcinogenicity | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Potential health effects | Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes severe burns. Skin May be harmful if absorbed through skin. Causes severe skin burns. Eyes Causes severe eye burns |
| Symptoms of Exposure | Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, pneumonitis, Symptoms and signs of poisoning are:, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed., Large doses may cause: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure, leading to collapse, coma, and possibly death |
| Additional Information | RTECS: Not available |

12. ECOLOGICAL INFORMATION

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|-------------------------------|--------------------------|
| Persistence and degradability | No information available |
| Ecotoxicity | No information available |
| Toxicity to fish | No information available |
| Bioaccumulative potential | No information available |
| Other adverse effects | No information available |

13. DISPOSAL CONSIDERATIONS

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| Product | Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Packaging | Dispose of as unused product. |

14. TRANSPORT INFORMATION

IATA

UN-Number: 2031 Class: 8 (5.1) Packing group: I

Proper shipping name: Nitric acid

IMDG

UN-Number: 2031 Class: 8 (5.1) Packing group: I

Proper shipping name: Nitric acid

EMS-No. F-E, S-D

DOT (US)

UN-Number: 2031 Class: 8 (5.1) Packing group: I

Proper shipping name: Nitric acid

Marine pollution: No

15. REGULATORY INFORMATION

Hazard statements

H272: May intensify fire; oxidiser.

H314: Causes severe skin burns and eye damage

Precautionary statements

P220: Keep/Store away from clothing/ combustible materials.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

GHS-Labeling

Pictogram



Signal word *Danger*

R-phrase(s): 8-35

Contact with combustible material may cause fire. Causes severe burns.

S-phrase(s): 23-26-36-45

Do not breathe gas/fumes/vapour/spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately

16. OTHER INFORMATION

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