



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
COLUMBUS, WISCONSIN 53925-0008
(920) 623-2140
FAX (920) 623-2577

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Nitric Acid, 0.1N

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

P.O. Box 8, N4335 Temkin Rd.

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

02-09-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Nitric Acid*, 7697-37-2, 5 mg/m³, 5 mg/m³, STEL:10mg/m³, 1-2%

*Subject to SARA Section 313 Reporting Requirements.

Section III - Physical/Chemical Characteristics

Table with 2 columns: Property, Value. Rows: Boiling Point (Not Available), Specific Gravity (H2O = 1) (1.0034), Vapor Pressure (mm Hg) (Not Available), Melting Point (Not Available), Vapor Density (AIR = 1) (Not Available), Evaporation Rate (Butyl Acetate = 1) (Not Available).

Solubility in Water

Complete.

Appearance and Odor

Clear, colorless to light-yellow liquid

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Nonflammable, Not applicable, Not applicable.

Extinguishing Media

Use water spray on nitric acid induced fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

| | | | | |
|-----------|----------|---|---------------------|------------------------|
| Stability | Unstable | | Conditions to Avoid | Incompatible materials |
| | Stable | X | | |

Incompatibility Materials to Avoid

Metals, alkalis, fluorine, reducing agents.

Hazardous Decomposition or Byproducts

Nitrogen oxides.

| | | | |
|--------------------------|---------------------|---|----------------|
| Hazardous Polymerization | Conditions to Avoid | | |
| | May Occur | | None reported. |
| | Will Not Occur | X | |

Section VI Health Hazard Data

| | | | |
|-----------------|--------------|--------|-------------|
| Routes of Entry | Inhalation ? | Skin ? | Ingestion ? |
| | Yes | Yes | Yes |

Health Hazards (Acute and Chronic)

Causes burns. Toxic if ingested or inhaled. May be harmful if absorbed through skin. Very destructive to mucous membranes, upper respiratory tract, eyes and skin. Large doses may cause cyanosis, fall in blood pressure, collapse, coma and possible death. Harmful to lungs, liver, kidneys, teeth, gastrointestinal system and cardiovascular system.

| | | | |
|-----------------|------------|-----------------|-----------------|
| Carcinogenicity | NTP | IARC Monographs | OSHA REGULATED? |
| | Not listed | Not listed | Not listed |

Signs and Symptoms of Exposure.

Irritation, especially to mucous membranes of eyes and upper respiratory tract. Itching, redness, swelling, burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, dizziness, collapse, and vomiting.

Medical Conditions Generally Aggravated by Exposure

Expected to aggravate asthma, emphysema, other respiratory diseases.

Emergency and First Aid Procedures **EYES/SKIN:** Flush immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Remove contact lenses if possible. Call physician immediately. Wash clothing before reuse
INGESTION: DO NOT induce vomiting. Give large amounts of water provided person is conscious. Call physician.
Move to fresh air. Give oxygen if breathing is difficult, artificial respiration if not breathing.

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled Evacuate and ventilate area. Wear self-contained breathing apparatus and full protective clothing. Dike spill and dilute with water. Pick up and place in container, isolate. Do not seal container. Neutralize residue with soda ash, lime or limestone and wash spill area with water after pickup is complete.

Waste Disposal Method Dispose of material in accordance with all Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant area. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe vapors. Protect exposed tissues. Store separate from combustible materials.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not breathe mists or vapors. **CORROSIVE.**

Section VII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with acid vapor cartridge.

| | | | | |
|-------------|----------------------|--------------|---------|-----------------------|
| Ventilation | Local Exhaust | Required. | Special | Safety shower nearby. |
| | Mechanical (General) | Recommended. | Other | Eyewash nearby. |

Protective Gloves Appropriate Chemical Resistant **Eye Protection** Chemical goggles and faceshield

Other Protective Clothing or Equipment Boots; protective clothing; full-face respirator, if needed.

Work /Hygienic Practices Do **NOT** wear contact lenses when handling material. Wear appropriate personal protective

Wash thoroughly after handling. Do not breath vapors. Avoid contact with eyes, skin and clothing. Use only with effective ventilation. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse. **CORROSIVE!**

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