



THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: NITRIC ACID, 6%  
Page 1 of 3

MSDS Date: December 22, 2004  
Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Nitric Acid, 6%  
**CHEMICAL NAME:** Nitric Acid  
**CHEMICAL FAMILY:** Inorganic acids  
**DOT SHIPPING INFORMATION:**

Nitric Acid, 8,  
UN 2031, PG II  
RQ = 1000 lbs

**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Nitric acid	7697-37-2	6	PEL/TLV = 5 mg/m <sup>3</sup> (TWA) TLV = 10 mg/m <sup>3</sup> (STEL)

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

This product is subject to EPCRA Section 313 (40 CFR Part 372) reporting requirements

**SECTION III - PHYSICAL DATA**

**BOILING POINT (F):** 244 F

**SPECIFIC GRAVITY:** 1.035

**VAPOR PRESSURE (mm Hg):** 10.8 mm Hg

**% VOLATILE, BY VOLUME:** 100%

**VAPOR DENSITY (air = 1):** N/A

**EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** Complete

**APPEARANCE AND ODOR:** Colorless to light brown liquid with a strong pungent odor.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** Nonflammable

**FLAMMABLE LIMITS:** Lel: N/A Uel: N/A

**EXTINGUISHING MEDIA:** Use any.



THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: NITRIC ACID, 6%  
Page 2 of 3

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Wear self-contained breathing apparatus and full protective clothing. Cool containers with water if exposed to fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Fire and explosion hazard when in contact with combustible materials. Excessive heat will release toxic fumes.

**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS OR MATERIALS TO AVOID:**

Organics, combustibles, excessive heat, metals, alkalines and reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitric oxides.

**SECTION VI - HEALTH HAZARD DATA**

**Carcinogenic Listing:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** Can cause severe burns to eyes, skin and mucous membranes.

**Inhalation:** Can cause painful irritation and/or burns to respiratory tract. Symptoms can be delayed up to four hours.

**Ingestion:** Harmful or fatal if swallowed, resulting in extreme burns to the gastrointestinal system.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Immediately flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes. Get prompt medical assistance!

**Inhalation:** Remove to fresh air. If breathing has stopped, administer artificial respiration. Consult a physician at once.

**Ingestion:** If conscious, give several glasses of water or milk. Do not induce vomiting. GET IMMEDIATE MEDICAL ASSISTANCE!

**SECTION VII - SPECIAL PRECAUTIONS**



**THATCHER COMPANY MATERIAL SAFETY DATA SHEET**  
**PRODUCT: NITRIC ACID, 6%**  
**Page 3 of 3**

**HANDLING AND STORAGE PRECAUTIONS:**

Avoid all contact. Do not breathe vapor. Do not take internally. Store in a cool, dry area away from all organic and combustible materials. Keep lids tightly closed.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

Wear safety equipment. Dike the liquid and recover as much as possible into stainless steel drums. Neutralize residue with soda ash or lime and flush to sewer with large amounts of water (if allowed by local regulations).

**WASTE DISPOSAL METHOD:**

Waste product is an EPA hazardous waste due to corrosivity and ignitability (D002 and D001) and must be disposed of at an EPA approved disposal facility. Ensure compliance to all local, state and federal regulations.

**OTHER PRECAUTIONS:**

Open lids carefully to avoid spattering. Exercise extreme care when handling nitric acid.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** A self-contained breathing apparatus MUST be available.

**VENTILATION:** Maintain ventilation to keep TLV below 2 ppm.

**EYE PROTECTION:** Chemical goggles, face shield.

**SKIN PROTECTION:** Rubber gloves, boots, acid suit.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent all bodily contact and to minimize exposure to vapor.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

**STEL** = Short Term Exposure Limit (ACGIH)

**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.