



## Nitric Acid, 39%

### 1. Identification

**Product Name:** Nitric Acid, 39%

**Item #:** DI0505087

**Web SDS:** S488

**Synonyms:** N/A

**Recommended Use:** Laboratory Reagent

**Restrictions on Use:** Any use other than recommended

**Manufacturer:**

**In Case of Emergency:**

BBC Biochemical

Chemtec US 1-800-424-9300

409 Eleanor Lane,

Chemtec International 703-527-3887

Mount Vernon, WA 98273

1-800-635-4477

### 2. Hazards Identification

**OSHA Hazard Classification(s):**

Corrosive to Metals - Category 1

Skin Corrosion - Category 1A

Eye Damage - Category 1

**Signal Word:** Danger

**Hazard Statement(s):** May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation.

**Pictogram(s):**



**Precautionary Statement(s):** Prevention-Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Response-IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse. Storage-Store in a closed container. Store in a well-ventilated place. Store in a dry place. Store locked up. Disposal-Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Descriptions of Hazards not otherwise classified:** N/A

**Percent of mixture with unknown acute toxicity:** N/A

### 3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Nitric Acid		7697-37-2	

### 4. First Aid Measures

**Eye Contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention.

**Ingestion:** Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

**Symptoms:** No data available.

**Recommendations for immediate medical care/special treatment:** No data available.

### 5. Fire- Fighting Measures

**Extinguishing Media:** Use: Water spray, fog, CO2, dry chemical, or regular foam.



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**Fire Hazards (Chemical):** May intensify fire; oxidizer.

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.

**Precautions for Firefighters:** Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental Release Measures

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Use personal protective equipment. Keep unauthorized personnel away.

**Protective Equipment:** See section 8

**Environmental Precautions:** Prevent runoff from entering drains, sewers, or streams. Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

**Containment and Clean-Up Procedures:** Avoid release to the environment. Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

### 7. Handling and Storage

**Handling:** Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid inhalation of vapors and contact with skin and eyes.

**Storage:** Keep container tightly closed. Store in appropriate chemical storage area.

### 8. Exposure Controls/Personal Protection

**OSHA Permissible Exposure Limits (PELs):**

Reagent	CAS #	OSHA PEL TWA
Nitric Acid	7697-37-2	2 ppm OR 5 mg/m <sup>3</sup>

**ACGIH Threshold Limit Values (TLVs):**

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Nitric Acid	7697-37-2	2 ppm	4 ppm

**Engineering Controls:** Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

**Special PPE Requirements:** If ventilation hood not available wear respirator.

### 9. Physical and Chemical Properties Section

**Appearance:** Colorless or light yellow, Clear Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** 1

**Boiling Point and Boiling Range:** 112 C

**Melting Point/Freezing Point:** -42 C

**Flash Point:** N/A

**Specific Gravity/Relative Density:** 1.120

**Odor:** Pungent

**Odor Threshold:** N/A

**Color:** Colorless or light yellow

**Flammability (solid/gas):** N/A

**Vapor Density:** N/A

**Upper/Lower flammability or explosive limits:** N/A

**Vapor Pressure:** N/A



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**Evaporation Rate:** N/A  
**Partition Coefficient: n-octanol/water:** N/A  
**Viscosity:** N/A  
**Auto-ignition temperature:** N/A  
**Solubility:** N/A  
**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

**Reactivity:** No data available.  
**Chemical Stability:** Stable  
**Conditions of Stability/Instability:** Stable  
**Stabilizers needed:** None  
**Safety issue indicated by appearance change:** N/A  
**Other:** N/A  
**Hazardous Reactions:** N/A  
**Hazardous Polymerization:** Does not occur  
**Conditions to avoid:** N/A  
**Classes of Incompatible Materials:** Strong reducing agents. Alkalies. Metals.  
**Hazardous Decomposition Products:** N/A

### 11. Toxicological Information

#### Likely Routes of Exposure

**Eyes:** N/A  
**Skin:** N/A  
**Inhalation:** N/A  
**Ingestion:** N/A

**Signs or Symptoms of Exposure:** N/A  
**Effects from short term exposure (delayed, immediate, chronic):** N/A  
**Acute Toxicity (Numerical Measures):** LC 50 (Rat, 30 min): 244 mg/l LC 50 (Mouse, 30 min): 244 mg/l  
**Carcinogenicity (NTP, IARC, OSHA):** N/A

### 12. Ecological Information

**Ecotoxicity:** LC 50 (Starfish (*Asterias rubens*), 48 h): 100 ? 330 mg/l Mortality LC 50 (Cockle (*Cerastoderma edule*), 48 h): 330 ? 1,000 mg/l Mortality LC 50 (Green or European shore crab (*Carcinus maenas*), 48 h): 180 mg/l Mortality  
**Persistence and degradability:** N/A  
**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A  
**Mobility in the soil:** N/A  
**Adverse Environmental Effects:** N/A

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities\*  
**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*  
**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*  
**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*  
**Waste Stream:** Consult your local or regional authorities.\*

### 14. Transport Information

**UN Number:** UN2031



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**UN Proper Shipping Name:** Nitric Acid  
**Transport Hazard Class(es):** 8  
**Packing Group Number:** II  
**Environmental Hazards (IMDG code):**  
**Marine Pollutant:** No  
**Transport in Bulk (IBC Code):**  
**Special Transport Precautions:**

### 15. Regulatory Information

**OSHA:** N/A  
**DOT:** N/A  
**EPA:** N/A  
**CPSC:** N/A



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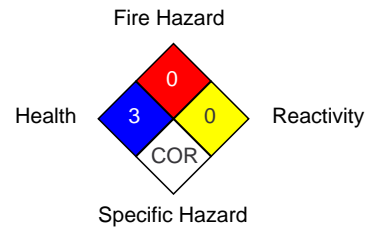
### 16. Other Information

Revision Date: 03/09/2017

#### NFPA

Health	3
Fire Hazard	0
Reactivity	0
Specific Hazard	COR

National Fire Protection Association (USA) NFPA



#### HMIS

Health	3
Flammability	0
Physical Hazard	3
Personal Protection	2

Hazardous Material Information System HMIS

Health	3
Flammability	0
Physical Hazard	3
Personal Protection	2

#### Notice to Reader:

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