

22% Nitric Acid(w/w)

1. Identification

Product Name: 22% Nitric Acid(w/w)

Synonyms: N/A

Recommended Use: Industrial Use Only

Manufacturer: BBC Biochemical 409 Eleanor Lane, Mount Vernon, WA 98273 1-800-635-4477 Item #: MA0519001 Web SDS: S527

Restrictions on Use: Any use other than recommended

In Case of Emergency: Chemtrec US 1-800-424-9300 Chemtrec International 703-527-3887

2. Hazards Identification

OSHA Hazard Classification(s):

Skin Corrosion - Category 1A Eye Damage - Category 1 **Signal Word:** Danger

Hazard Statement(s): May intensify fires, oxidizer. Causes severe skin burns and eye damage.

Pictogram(s):





Precautionary Statement(s): Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye, and face protection. If Swallowed: Rinse mouth. Do not induce vomiting. Immediately seek medical attention. If on Skin: Immediately take off all contaminated clothing. Rinse skin with water for 15 minutes. Immediately seek medical attention. If Inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately seek medical attention. If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if easy and present to do. Continue rinsing. Immediately seek medical attention.

Storage: Store locked up.

Disposal:Dispose of contents and container in accordance to local and federal regulations.

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 %
Nitirc Acid		7697-37-2	20-23%

4. First Aid Measures

Eye Contact: Causes eye burns. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Skin Contact: May be harmful if absorbed through skin. If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. Get medical advice/attention.

Inhalation: Causes respiratory tract irritation. Remove to fresh air; give artificial respiration if breathing has stopped. Get medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

Symptoms: Irritation of eyes, nose, throat; headache, dizziness, redness, pain.

Recommendations for immediate medical care/special treatment: Get medical advice/attention if exposed.

5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Cool unopened containers with water.



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Fire Hazards (Chemical): May intensify fires, oxidizer.

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

Precautions for Firefighters: Emits toxic fumes(nitrogen oxides) under fire conditions.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

Protective Equipment: See section 8

Environmental Precautions: Prevent release to the environment by using barriers.

Containment and Clean-Up Procedures: Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. Handling and Storage

Handling: Do not breathe vapors. Do not eat, drink or smoke when using this product. Use adequate ventilation or a respirator.

Storage: Tore in a well-ventilated place. Keep cool. Keep away from incompatible materials(see Section 10)

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS#	OSHA PEL TWA
Nitirc acid	7697-37-2	2ppm(5mg/m3)

ACGIH Threshold Limit Values (TLVs):

Reagent	CAS#	ACGIH PEL TLV	ACGIH STEL
Nitric Acid	7697-37-2	2ppm(5mg/m3)	4ppm(10mg/m3)

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, Clear Liquid

Molecular Weight: N/A Molecular Formula: N/A

pH: N/A

Boiling Point and Boiling Range: N/A **Melting Point/Freezing Point:** N/A

Flash Point: N/A

Specific Gravity/Relative Density: N/A

Odor: Sharp, Acrid
Odor Threshold: N/A
Color: Colorless

Flammability (solid/gas): N/A

Vapor Density: N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A Evaporation Rate: N/A



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Partition Coefficient: n-octanol/water: N/A

Viscosity: N/A

Auto-ignition temperature: N/A

Solubility: Water

Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: Not Reactive Chemical Stability: Stable

Conditions of Stability/Instability: Stable under normal conditions of temperature and pressure

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: Oxidizers, Strong Acids, Strong Bases

Hazardous Decomposition Products: Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors

(I.e. Carbon monoxide) may be released in a fire.

11. Toxicological Information

Likely Routes of Exposure

Eyes: Itching, redness, burning, watering eyes. **Skin:** Itching, swelling, redness, burning.

Inhalation: Burning, choking, shortness of breath, coughing, wheezing, dizziness.

Ingestion: Burning, choking, nausea, vomiting, pain.

Signs or Symptoms of Exposure: N/A

Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache,

dizziness, nausea.

Acute Toxicity (Numerical Measures): LDLO Oral-Human-430mg/kg

Carcinogenicity (NTP, IARC, OSHA): N/A

12. Ecological Information

Ecotoxicity: LC50 – Gambusia affinis – 72 mg/L – 96h

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): N/A Special Transport Precautions: N/A

15. Regulatory Information

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



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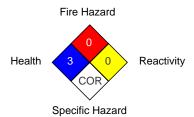
16. Other Information

Revision Date: 05/23/2018

NFPA

Health	3
Fire Hazard	0
Reactivity	0
Specific Hazard	COR

National Fire Protection Association (USA) NFPA



HMIS

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	

Hazardous Material Information System HMIS



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