



MATERIAL SAFETY DATA SHEET

Section 1 – PRODUCT AND SAFETY SUPPLIER INFORMATION

Product Name: Gunshot Residue Test Kit-AA
Common Name: Concentrated Nitric Acid.
Supplier: Lightning Powder Company, Inc.
13386 International Parkway, Jacksonville, FL 32218
Emergency Telephone: Chemtel® United States (800) 255-3924 International – 813-248-0585 (Collect)
Date Prepared: November 18, 2002

Section 2 – HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
Nitric Acid	7697-37-2	Approx. 70	5 mg/m ³	5.2 mg/m ³

Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid with acrid odor.
Specific Gravity: 1.41 Solubility in Water: Miscible
Boiling Point: 122 deg. C Melting Point: - 34 deg. C
Vapor Density: 2.5 Vapor Pressure (mmHg): 62
Evaporation Rate: No data Percent Volatile: 100

Section 4 – FIRE AND EXPLOSION DATA

Flash Point: None UEL: n/a LEL: n/a
Extinguishing Media: Water spray, dry chemical.
Firefighting Procedures: Wear SCBA and protective clothing.
Unusual Fire and Explosion Hazards: Can react explosively with with certain reducing agents and combustibles such as metal powders, carbides, hydrogen sulfide, turpentine.



Section 5 – REACTIVITY DATA

Stability: Yes Hazardous Polymerization: No
Incompatibilities: Strong oxidizing and reducing agents, all combustible matter,
~~hazardous~~ Hazardous Decomposition Products: Hydrogen gas, NO_x.

Section 6 – HEALTH HAZARD INFORMATION

Health Hazards: Causes severe burns to all tissues. Vapor extremely hazardous.
May cause gas nitrous gas poisoning. May be fatal if inhaled or swallowed.
Symptoms of lung injury may be delayed.
Routes of Entry and First-Aid Procedures: Get medical assistance for all cases of
exposure.
Eyes: Immediately flush with large amounts of water.
Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped.
Skin: Immediately flush with large amounts of water.
Ingestion: Do not induce vomiting. If alert, give water freely.
Signs and Symptoms of Exposure: Burning of any body tissue, pneumonia,
pulmonary edema, death.
Medical Conditions Aggravated by Exposure: Respiratory conditions.

Section 7 – EXPOSURE CONTROLS

Respirator Protection: NIOSH approved respirator for acids.
Ventilation: Sufficient to maintain below TLV.
Protective Gloves: Chemical resistant to acids. Eye Protection: Safety
glasses with side shields or splash goggles.
Other Protective Equipment: Impervious apron or lab coat.
Work and Hygienic Practices: Wash thoroughly after handling.

Section 8 – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released: Ventilate area. Wear personal
protection. Neutralize spill to pH 6-9 and take up with inert material.
Waste Disposal Method: Contact a permitted waste disposer to assure compliance
with all current local, state, and federal regulations.

Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Avoid all routes of personal exposure. Avoid contact with
combustible matter and reducing agents.
Storage Method: Chemical safety cabinet for acids and oxidizers. Keep container
well closed and protected from physical damage. Store in a cool, dry location.



Section 10 – TOXICOLOGICAL DATA

Carcinogenicity:

NPT: No

OSHA: No

IARC: No

Acute Inhalation LC50: No data

Acute Dermal LD50: No data

Acute Oral LD50: 110 mg/kg

Section 11 – ECOLOGICAL DATA

No data available.

Section 12 – TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Nitric Acid

Identification Number: UN2031 Hazard Class: 8

Packing Group: II