



## MATERIAL SAFETY DATA SHEET

### Section 1 – PRODUCT AND SAFETY SUPPLIER INFORMATION

Product Name: Ninhydrin Solution  
Common Name: Ninhydrin Solution  
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: January 15, 2003

### Section 2 – HAZARDOUS INGREDIENTS

| <u>Ingredient</u>  | <u>CAS#</u> | <u>Percent</u> | <u>PEL (OSHA)</u> | <u>TLV (ACGIH)</u> |
|--|-------------|----------------|-------------------|--------------------|
| Trade Secret as defined by OSHA<br>29 CFR 1910.1200 Appendix D |             | 93.5           | 50 ppm*           | 50 ppm             |
| Trade Secret as defined by OSHA<br>29 CFR 1910.1200 Appendix D |             | 6              | Undetermined      | Undetermined       |

### Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Clear, pale liquid with chloroform-like odor.  
Specific Gravity: 1.4352 Solubility in Water: 0.16785 %  
Boiling Point: 86.7 deg. C Melting Point: -86.4 deg. C  
Vapor Density: 4.54 Vapor Pressure (mmHg): 57.8 @ 20 deg. C  
Evaporation Rate: 0.28 (ethyl ether = 1) Percent Volatile: 93.5

### Section 4 – FIRE AND EXPLOSION DATA

Flash Point: None (DOT) UEL: 52 % LEL: 7.8 %  
Extinguishing Media: CO2, dry chemical, water.  
Firefighting Procedures: Nonflammable liquid, but vapor concentrations ranging between explosion limits can occur in confined or poorly ventilated areas. Wear SCBA with NIOSH approved pressure demand. Emits toxic fumes under fire conditions.  
Unusual Fire and Explosion Hazards: None known.





## **Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE**

Special Precautions: Avoid contact with foodstuffs. Wear personal protection. Wash thoroughly.

Storage Method: Keep tightly sealed in a cool location away from direct sunlight. Do not transfer material to aluminum containers or enclosures.

## **Section 10 – TOXICOLOGICAL DATA**

Carcinogenicity: This product contains a material reasonably anticipated to be a human carcinogen.

NPT: No

OSHA: No

IARC: Yes, 2A

Acute Inhalation LC50: 8450 ppm (mouse, 4 hours).

Acute Dermal LD50: >20 mg/kg (rabbit).

Acute Oral LD50: 5650 mg/kg (rat).

## **Section 11 – ECOLOGICAL DATA**

Sheepshead Minnows- 96-hour LC50- 52 mg/l

Mysid Shrimp- 96-hour LC50- 14 mg/l

Marine Alga- 96-hour EC50- 95 mg/l

## **Section 12 – TRANSPORTATION IDENTIFICATION**

Proper Shipping Name: Consumer Commodity, ORM-D

Identification Number: n/a

Hazard Class: n/a

Packing Group: n/a