

## Material Safety Data Sheet (MSDS)

### Section 1 — Chemical Product and Company Identification

#### Ninhydrin Solution

Flinn Scientific, Inc., P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

### Section 2 — Composition, Information on Ingredients

Ninhydrin (485-47-2) .5%, Butanol (71-36-3) 99%

Synonym: 0.5% solution in butanol

CAS#: None Established

### Section 3 — Hazards Identification

Amber colored liquid. Odor of butyl alcohol.

Moderately toxic by ingestion and inhalation. Severe body tissue irritant. Avoid body tissue contact.

Contains butanol, a flammable liquid.

#### FLINN AT-A-GLANCE

Health-2

Flammability-3

Reactivity-1

Exposure-2

Storage-3

0 is low hazard, 3 is high hazard

### Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Induce vomiting. Call a physician or poison control at once.

### Section 5 — Fire Fighting Measures

Class IC flammable liquid.

Flash Point: 95 F Upper: 11.2% Lower: 1.4% Autoignition Temperature: 649 F

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None

Established

### Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

### Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can.

Use and dispense in a hood.

### Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 100 ppm, as butanol (OSHA)

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS) Ninhydrin Solution

MSDS #: 551.00

Revision Date: March 14, 2001

### Section 9 — Physical and Chemical Properties

Amber colored liquid. Odor of butyl alcohol.

### Section 10 — Stability and Reactivity

Avoid contact with acid chlorides, acid anhydrides, oxidizing agents copper; sources of ignition; avoid body contact; avoid inhaling.

Shelf life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: Severe irritant, GI disturbances

ORL-RAT LD50: 790 mg/kg as butanol

Chronic effects: N.A.

IHL-RAT LC50: 8000 ppm/4H as butanol

Target organs: Central nervous system, ears, liver, kidneys, blood

SKN-RBT LD50: 340 mg/kg as butanol

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations.  
Flinn Suggested Disposal Method 18b is one option.

### Section 14 — Transport Information

Shipping Name: Butanols

Hazard Class: 3, Flammable liquid

UN Number: UN1120

N.A. = Not applicable

### Section 15 — Regulatory Information

Not listed.

### Section 16 — Other Information

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Consult your copy of the *Flinn Scientific Catalog/Reference Manual* for additional information about laboratory chemicals.

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Materials listed in this MSDS are classified in accordance with the definitions set forth in 29CFR parts 1915, 1916 and 1917.

Date: 3/1/87

Date Revised: 1/3/89

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