

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 551.00

Revision Date: November 19, 2010

### 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) 0.5%, Butyl alcohol (71-36-3) 99%

Synonym: 0.5% solution in butyl alcohol

CAS#: None established

### SECTION 3 — HAZARDS IDENTIFICATION

Amber colored alcohol solution. Odor of butyl alcohol.

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

Contains butyl alcohol, 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 or other inert 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)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Amber colored liquid. Odor of butyl alcohol.

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**SECTION 10 — STABILITY AND REACTIVITY**

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

Shelf life: Indefinite.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Severe irritant, GI disturbances

Chronic effects: N.A.

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

ORL-RAT LD50: 790 mg/kg as butanol

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

SKN-RBT LD50: 340 mg/kg as butanol

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

Flinn Suggested Disposal Method 18b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Butanols

Hazard Class: 3, Flammable liquid

UN Number: UN1120

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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**SECTION 16 — OTHER INFORMATION**

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