

**MSDS - Material Safety Data Sheet****Product Name: Ninhydrin Remover**

MSDS No.: SPU80

**I. Basic Information:**

Manufacturer: Sirchie Finger Print Laboratories

Address: 100 Hunter Place

City, ST Zip: Youngsville, NC 27596

Emergency Contact: ChemTrec

Emergency Telephone Number: 800-424-9300

Contact: Tech Support

Information Telephone Number: 919-554-2244

Last Update: 02/02/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

2	Health
4	Flammability
1	Reactivity
H	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
67561	Methanol	66					X	200 ppm	200 ppm	53.6 F	
6153566	Oxalic acid dihydrate	1						1 mg/m3	1 mg/m3	104 C	
7732185	Water (Distilled)	33						None	None	212 F	

**III. Hazardous Identification:**

Hazard Category:

 Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

FLAMMABLE! May be fatal or cause blindness if ingested. Harmful if inhaled. May be absorbed through the skin. May cause respiratory and digestive tract irritation. Skin and eye irritant. May cause central nervous system depression. May cause liver and kidney damage. May cause adverse reproductive and fetal effects based on animal testing.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**IV. First Aid Measures:****Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

**Health Hazards (Acute and Chronic):**

Chronic: Dermatitis

**Signs and Symptoms:**

Inhalation: Headache, convulsions, death

Ingestion: Excitement, headache, dizziness, drowsiness, nausea, collapse, unconsciousness, coma, death due to respiratory failure

**Medical Conditions Generally Aggravated by Exposure:**

Skin, lung, liver, kidney, nervous diseases

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### Emergency and First Aid Procedures:

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Induce vomiting. Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if condition warrants.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

Notes to physician: Effects may be delayed. Ethanol may inhibit metabolism.

### Other Health Warnings:

### V. Fire Fighting Measures:

Flash Point: 53.6 F

Lower Explosive Limit: 6.00 vol%

Upper Explosive Limit: 31.00 vol%

### F.P. Method:

Fire Extinguishing Media: Carbon dioxide, dry chemical powder, water spray, alcohol-resistant foam

### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Water may be ineffective, but may be used to cool fire-exposed containers.

### Unusual Fire and Explosion:

Containers can build up pressure if exposed to heat and/or fire. Vapors from this product may travel some distance from original point to an ignition source and flash back.

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and bunged and then disposed of according to local, state, and federal regulations.

### VI. Accidental Release Measures:

#### Steps to be Taken in Case Material is Released or Spilled:

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Soak up with absorbent material (earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with non-sparking tool. Dispose according to local, state, and federal regulations.

### VII. Handling and Storage:

#### Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Avoid inhalation and ingestion. Avoid contact with skin, eyes, and clothes. Avoid repeated or prolonged exposure. Wash thoroughly after handling.

#### Other Precautions:

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and bunged and then disposed of according to local, state, and federal regulations.

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### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Use only in well-ventilated areas.

#### Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

### IX. Physical and Chemical Properties:

**Boiling Point:** 64.7 C

**Melting Point:** -98 C

**Evaporation Rate (Butyl Acetate = 1):** 5.2

**Vapor Pressure (mm Hg.):** 96

**Specific Gravity (H<sub>2</sub>O = 1):**

**Vapor Density (AIR = 1):** 1.1

**Solubility In Water:** Miscible

**Appearance and Odor:** Colorless, odorless liquid

#### Other Information:

### X. Stability and Reactivity:

#### Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

#### Incompatibility (Materials to Avoid):

Bases, acid chlorides, alkali metals, steel, metals, oxidants, active metals, acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, potassium tertbutoxide, ignition sources (heat, open flame, spark)

#### Decomposition/By Products:

Carbon monoxide, carbon dioxide, formaldehyde

#### Hazardous Polymerization:

Does not occur.

### XI. Toxicological Information:

TOXIC: FLAMMABLE! May be fatal or cause blindness if ingested. Harmful if inhaled. May be absorbed through the skin. May cause respiratory and digestive tract irritation. Skin and eye irritant. May cause central nervous system depression. May cause liver and kidney damage. May cause adverse reproductive and fetal effects based on animal testing.

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### XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life.

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

Methanol

RCRA U-Series: waste no. U154

This material is banned from land disposal according to RCRA.

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### ***XIV. Transport Information:***

Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Avoid inhalation and ingestion. Avoid contact with skin, eyes, and clothes. Avoid repeated or prolonged exposure. Wash thoroughly after handling.

IATA

Shipping name: Alcohols, N.O.S.

Hazard class: 3

UN no.: 1987

Packing group: II

Flammable liquid!

### ***XV. Regulatory Information:***

Methanol and oxalic acid dihydrate are listed on the TSCA inventory.

Methanol is listed as a hazardous air pollutant (HAP) under the Clean Air Act.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### ***XVI. Other Information:***

Using this product under normal, properly instructed procedures should not be hazardous.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.