

**MSDS - Material Safety Data Sheet****Product Name: Ninhydrin Spray With Acetone**

EVIDENT, INC.  
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MSDS No.: 201ACE

**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: 01/06/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

1	Health
4	Flammability
0	Reactivity
B	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
485472	2,2-Dihydroxyindane-1,3-dione (Ninhydrin)	Trace							NE	NE	255 C
67641	Acetone	50-55%							1000 ppm	750 ppm	-4 F
64175	Ethanol	10-15%							1,000 ppm	1,000 ppm	57 F
68476857	Liquefied petroleum gas (LPG)	20-25%							1,000 ppm	1,000 ppm	
108883	Toluene	10-15%					X		100 ppm	100 ppm	45 F

**III. Hazardous Identification:**

Hazard Category:

Acute  Chronic  Fire  Pressure  Reactive

**Hazardous Identification Information:**

CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

**POTENTIAL HEALTH EFFECTS**

SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EYES: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.

INGESTION: Due to being an aerosol, the product does not lend itself to injection. Should injection occur, it may cause irritation of the membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps.

INHALATION: Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.

MEDICAL CONDITIONS AGGRAVATED: Skin contact may aggravate existing dermatitis. Other conditions unknown.

CARCINOGEN DATA: None of the ingredients in this product are listed with OSHA, IARC, or NTP as being carcinogenic.

**IV. First Aid Measures:**

Route(s) of Entry:

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**INGESTION:** Unlikely due to being in aerosol form. Should ingestion occur, DO NOT INDUCE VOMITING! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**EYE:** Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

**SKIN:** Remove with soap and water. Continue flushing for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if a large area of skin is affected.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

### Health Hazards (Acute and Chronic):

### Signs and Symptoms:

### Medical Conditions Generally Aggravated by Exposure:

MEDICAL CONDITIONS AGGRAVATED: Skin contact may aggravate existing dermatitis. Other conditions unknown.

### Emergency and First Aid Procedures:

### Other Health Warnings:

## V. Fire Fighting Measures:

**Flash Point:** <0 F

**Lower Explosive Limit:** No Data

**Upper Explosive Limit:** No Data

### F.P. Method:

**Fire Extinguishing Media:** Use NFPA Class B extinguishers (CO<sub>2</sub>, dry chemical or aqueous foam).

### Special Fire Fighting Procedures:

Use water spray to cool fire exposed aerosol containers as containers can rupture violently from heat developed pressure.

### Unusual Fire and Explosion:

Contents under pressure. In addition, when liquid or vapor comes into contact with flames or hot metal, products of combustion will be created. Firefighters should wear self-contained breathing apparatus.

## VI. Accidental Release Measures:

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

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**CONTAINMENT PROCEDURES:** Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill.

**SPILL CLEANUP:** Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

**SPECIAL INSTRUCTIONS:** Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Ventilate the area immediately and provide continuous ventilation until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. (See Section XIII for disposal considerations.)

**REPORTING REQUIREMENTS:** Spills due to rupture of a single can are generally below any regulatory reporting requirements. However, if larger spills somehow result, the reporting requirements of the EPA and other local, state and federal agencies should be observed.

### ***VII. Handling and Storage:***

#### **Precautions to be Taken:**

Avoid prolonged or repeated skin contact. Avoid breathing vapors. Store in area below 120 degrees F. Do not incinerate (burn) containers. Assure container is in a secure place to prevent knocking over and accidental rupture. Always replace the overcap when not in use. For storage of pallet quantities, compliance with ANS/NFPA 30B is recommended.

"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.

#### **Other Precautions:**

### ***VIII. Exposure Controls/Personal Protection:***

#### **Ventilation Requirements:**

General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section II.

#### **Personal Protective Equipment:**

**EXPOSURE GUIDELINE:** Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing, use the lowest rated ingredient in Section II.

**EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash-proof goggles are recommended.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body covering clothing should be needed. When prolonged contact or repeated contact could occur, use protective clothing such as Sol-Vex gloves or other clothing impervious to the ingredients listed in Section II.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required an appropriate NIOSH approved respirator for organic vapor should be worn. If respirators are needed, assure compliance with OSHA standard 29 CFR 1910.134.

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### IX. Physical and Chemical Properties:

Boiling Point: <0-F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Vapor Pressure (mm Hg.): No Data

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): Above 1.0

Solubility In Water: Negligible

Appearance and Odor: Colorless liquid, solvent odor

Other Information:

### X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizers

Decomposition/By Products:

Oxides of Carbon

Hazardous Polymerization:

Will not occur

### XI. Toxicological Information:

ACUTE ORAL LD50: Acetone >9 g/kg (rabbit), Toluene >5 g/kg (rat)

ACUTE DERMAL LD50: Acetone >20 g/kg (rabbit), >14 ml/kg (rabbit)

ACUTE INHALATION LC50: LP Gas 57.42% v/v (mice), Acetone 16000 ppm/4H (rat), Toluene 8000 ppm/4H (rat).

### XII. Ecological Information:

This product has not been tested for environmental effects.

### XIII. Disposal Considerations:

An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c) (6), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is recycled. If containers are not recycled they must be managed under all applicable RCRA and state regulations.

### XIV. Transport Information:

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DOT HM-181:

Hazard Classification: ORM-D

NATIONAL MOTOR FREIGHT CLASSIFICATION:

Item: 48580 Sub 2

Article: Compounds, Cleaning

Class: 55

IATA

Shipping name: Aerosols, flammable, toxic, containing substances in Div. 6.1, packing group III

Hazard class: 2.1

Sub-Class: 6.1

UN no.: 1950

Flammable Gas

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

TOXIC SUBSTANCES CONTROL ACT: All of the ingredients in this product are on the TSCA inventory.

SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of section 313 of Title II of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Toluene (10.0%).

CLEAN AIR ACT: The following ingredients appear on the list of Hazardous Air Pollutants (HAP-42 USC 7412, Title I, Part A, p112.): Toluene

CLEAN WATER ACT: The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): Toluene.

CALIFORNIA PROP. 65: The following ingredients appear on the Proposition 65 list(s): Toluene (R).

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM: The following ingredients are listed: LPG, Acetone, Toluene, Ethanol.

### ***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.