

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

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MSDS No.: 201C-202C**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 Solid**Chemical Type:** Pure Mixture

1	Health
4	Flammability
0	Reactivity
G	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)								NE	NE	255 C
64175	Ethanol	10-15							1,000 ppm	1,000 ppm	57 F
141786	Ethyl acetate	10-15							400 ppm	400 ppm	24 F
68476857	Liquefied petroleum gas (LPG)	50-55							1,000 ppm	1,000 ppm	
1330207	Xylene	20-25							100 ppm	100 ppm	81 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).

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

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

INHALATION: Prolonged or repeated exposure 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 an existing dermatitis. Other conditions unknown.

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

"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

MSDS - Material Safety Data Sheet

Product Name: Ninhydrin Spray

MSDS No.: 201C-202C

IV. First Aid Measures:

Route(s) of Entry:

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 eyelids. Consult a physician for definitive treatment.

SKIN: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if 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):

See Section III

Signs and Symptoms:

Headache, dizziness, staggering gait, unconsciousness.

Medical Conditions Generally Aggravated by Exposure:

Dermatitis

Emergency and First Aid Procedures:

See "Route(s) of Entry above.

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: For warehouse and storage conditions, use NFPA Class B extinguishes (CO₂, dry chemical or universal aqueous film forming foam.)

Special Fire Fighting Procedures:

Use water spray to cool containers for containers can rupture violently from heat-developed pressure.

Unusual Fire and Explosion:

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

VI. Accidental Release Measures:

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

MSDS - Material Safety Data Sheet

Product Name: Ninhydrin Spray

MSDS No.: 201C-202C

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 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. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal considerations.

REPORTING REQUIREMENTS: Spills due to rupture of a single aerosol 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 can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For storage of pallet quantities, compliance with ANSI/NFPA 30B is recommended.

Other Precautions:

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

ENGINEERING CONTROLS: 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 2.

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 2.

Personal Protective Equipment:

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 or repeated contact could occur, use protective clothing such as Sol-Vex gloves or other clothing impervious to the ingredients listed in Section 2.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. Where 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

IX. Physical and Chemical Properties:

Boiling Point: < 0 F.

Melting Point: Unkn

Evaporation Rate (Butyl Acetate = 1): Unkn

Vapor Pressure (mm Hg.): No Data

Specific Gravity (H₂O = 1):

Vapor Density (AIR = 1): Above 1.0

Solubility In Water: Negligible

Appearance and Odor: Clear Liquid, Solvent odor

Other Information:

X. Stability and Reactivity:

Stability:

Stable

MSDS - Material Safety Data Sheet

Product Name: Ninhydrin Spray

MSDS No.: 201C-202C

Incompatibility (Materials to Avoid):

Heat, sparks, flame, red hot metal, strong oxidizing materials.

Decomposition/By Products:

Oxides of Carbon

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

ACUTE ORAL LD50: Xylene >4 g/kg (rat), Ethyl Acetate >5 g/kg (rat)

ACUTE DERMAL LD50: Xylene >3 ml/kg (rabbit), Ethyl Acetate >20 ml/kg (rabbit)

ACUTE INHALATION LC50: Liquefied Petroleum Gas 57.42% v/v (mice), Xylene 7600 ppm/4H (rat), Ethyl Acetate .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 (40CFR 261.1 (c) (6), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are not recycled they must be managed under all applicable RCRA and state regulations.

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

XIV. Transport Information:

DOT HM-181 INFORMATION
PROPER SHIPPING NAME: Consumer Commodity
HAZARD CLASS: 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
Packing group:
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 III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372: Xylene (20.0%)

CLEAN AIR ACT (caa): The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): Xylene

CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list: None.

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEMS (WHMIS): The following ingredients are listed:
LPG, Xylene, Ethyl Acetate, Ethanol.

MSDS - Material Safety Data Sheet

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MSDS No.: 201C-202C

<i>XVI. Other Information:</i>

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.