

MSDS - Material Safety Data Sheet**Product Name: NinhydrinHT Pump Spray for Heat-Transfer Papers**

MSDS No.: NHT609

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: 01/31/2011

Expiration Date:

Chemical State: Liquid Gas SolidChemical Type: Pure Mixture

1	Health
0	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients: Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
67630	Isopropanol	12.50							400ppm	400ppm	
163702076	Methyl nonafluorobutyl ether	30-50									
163702087	Methyl nonafluoroisobutyl Ether	50-70									
485472	Ninhydrin	Trace						NE	NE	255 C	

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

May be harmful if inhaled. Respiratory and digestive tract irritant. Skin and eye irritant.

IV. First Aid Measures:

Route(s) of Entry:

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

Eye, skin, gastrointestinal and respiratory irritant

Signs and Symptoms:

Eye, skin, gastrointestinal and respiratory irritant

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, liver, kidney, heart, respiratory, central nervous system, cardiovascular system 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: DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of water. (Never give anything by mouth to an unconscious person!) Aspiration hazard. If vomiting does occur, have victim lean forward to reduce the risk of aspiration. Get medical attention.

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

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.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: NE

Lower Explosive Limit: NE

Upper Explosive Limit: NE

F.P. Method:

Fire Extinguishing Media: Fight fire based on surrounding materials.

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Water may be used to cool fire-exposed containers. DO NOT use straight streams of water. Cool containers with flooding amounts of water until well after fire is out.

Unusual Fire and Explosion:

Containers may rupture under fire conditions.

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). Stop leak at source. Dike area. Soak up with inert absorbent material (sand, oil dry, earth, vermiculite, or floor absorbent recommended).

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Do not store above 125 F. Keep cool and dry. Avoid ingestion and inhalation. 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.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles and gloves.

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IX. Physical and Chemical Properties:

Boiling Point: 54 C

Melting Point: NE

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): 207mmHg

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): 7.1

Solubility In Water: To be determined

Appearance and Odor: Clear liquid; slight alcohol odor

Other Information:

X. Stability and Reactivity:

Stability:

Normally stable.

Incompatibility (Materials to Avoid):

Strong acids, strong bases, strong oxidizing agents.

Decomposition/By Products:

Hydrogen fluoride, Perfluorinated Acid Fluorides, oxides of carbon

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

May be harmful if inhaled. May cause central nervous system depression. May suffocate if air is displaced by vapors.

XII. Ecological Information:

Ecological effects have not been fully investigated.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

XIV. Transport Information:

Keep in tightly closed container.

XV. Regulatory Information:

Not regulated.

XVI. Other Information:

This product contains HFE-7100 3M Novec Engineered Fluid (methyl nonafluorobutyl ether and methyl nonafluorobutyl ether). The components of this material are in compliance with the chemical notification requirements of TSCA.

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

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