

# NHT609 Ninhydrin HT Pump Spray for Heat-

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 1: Identification**

Identification

Product form

: NHT609 Ninhydrin HT Pump Spray for Heat-Transfer Papers Product name

Product code : NHT609

Recommended use and restrictions on use

Use of the substance/mixture : Insulation/heat transfer

1.3. **Supplier** 

**SIRCHIE** 

100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

1.4. **Emergency telephone number** 

Emergency number : 1.800.424.9300 (USA) +1-703-527-3887 (INTL)

CHEMTREC: 1.800.424.9300

### SECTION 2: Hazard(s) identification

### Classification of the substance or mixture

### **GHS US classification**

Not classified

### GHS Label elements, including precautionary statements

### **GHS US labeling**

No labeling applicable

### 2.3. Other hazards which do not result in classification

No additional information available

### **Unknown acute toxicity (GHS US)**

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### **Substances** 3.1.

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
Methyl nonafluorobutyl ether	(CAS-No.) 163702-07-6	17.62 - 70.48	Not classified
Methyl nonafluoroisobutyl ether	(CAS-No.) 163702-08-7	17.62 - 70.48	Not classified
2-propanol	(CAS-No.) 67-63-0	1.6	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
ninhydrine	(CAS-No.) 485-47-2	0.3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements: see section 16

### **SECTION 4: First-aid measures**

### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

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Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/effects

### Immediate medical attention and special treatment, if necessary

No additional information available

### **SECTION 5: Fire-fighting measures**

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Reactivity : No data available.

#### Special protective equipment and precautions for fire-fighters **5.3.**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Ventilate area. **Emergency procedures** 

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

### Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

### Conditions for safe storage, including any incompatibilities

: Keep only in the original container in a cool, well ventilated place away from : Keep container Storage conditions

closed when not in use.

Strong bases. Strong acids. Incompatible products Incompatible materials Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

### **Control parameters**

NHT609 Ninhydrin HT Pump Spray for Heat-Transfer Papers		
ACGIH	ACGIH TWA (ppm)	400 ppm
OSHA	OSHA PEL (TWA) (ppm)	400 ppm

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2-propanol (67-63-	2-propanol (67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	400 ppm	
ninhydrine (485-47	ninhydrine (485-47-2)		
Not applicable			
Methyl nonafluorobutyl ether (163702-07-6)			
Not applicable			
Methyl nonafluoroisobutyl ether (163702-08-7)			
Not applicable	Not applicable		

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Dust/aerosol mask. Gloves. Safety glasses. Avoid all unnecessary exposure.

### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):







### Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

9.1.	Information of	n basic physical	l and chemical properti	es

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color : Colorless
Odor : Alcohol odour
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point :  $>= 70 \, ^{\circ}\text{C}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable.

Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available

Solubility : Soluble in water. Literature reports: moderately soluble in water.

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: No data available Log Pow Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties : No data available : No data available Oxidizing properties

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions. Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

2-propanol (67-63-0)	
LD50 oral rat	5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	16400 mg/kg body weight

ninhydrine (485-47-2)	
LD50 oral rat	600 mg/kg (Rat, Oral)
ATE US (oral)	600 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

2-propanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

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ninhydrine (485-47-2)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 12: Ecological information

### 12.1. Toxicity

2-propanol (67-63-0)	
LC50 fish 1	9640 - 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-
	through system, Fresh water, Experimental value, Lethal)

### 12.2. Persistence and degradability

NHT609 Ninhydrin HT Pump Spray for Heat-Transfer Papers		
Persistence and degradability	Not established.	
2-propanol (67-63-0)	2-propanol (67-63-0)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance	
ThOD	2.4 g O <sub>2</sub> /g substance	
ninhydrine (485-47-2)		
Persistence and degradability	Biodegradability in water: no data available.	
ThOD	1.53 g O <sub>2</sub> /g substance	

### 12.3. Bioaccumulative potential

NHT609 Ninhydrin HT Pump Spray for Heat-Transfer Papers	
Bioaccumulative potential	Not established.
2-propanol (67-63-0)	
Log Pow	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
ninhydrine (485-47-2)	
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

2-propanol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
Log Koc	0.185 - 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

Transport by sea

Air transport

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

### **CANADA**

No additional information available

### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : None.

### Full text of H-phrases:

town of the prince of the state	
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : 0

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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