

Date revised: 4/29/2013

# SAFETY DATA SHEET

Conforms to regulation (EC) no. EU 453/2010

# 1. Chemical Product and Company Identification

Product Name: Histo-Clear Product Number: HS-200

# Chemical names/description

Distilled essential oils - food grade

### Manufacturer

National Diagnostics 305 Patton Drive Atlanta, GA 30036

# **Telephone Numbers**

(404) 699-2121 (800) 526-3867

### **Emergency Numbers**

Chemtrec

1-800 424-9300 (U.S. & Canada) 01-703-527-3887 (outside U.S. & Canada)

# 2. Composition/Information on Ingredients

### Component List

Component	% Comp.	CAS#	EC#	TLV
d-limonene	95-100%	5989-27-5	227-813-5	None established

### EEC LABEL SYMBOL AND CLASSIFICATION





#### R: 10-38-43-50/53

Flammable. Irritating to skin. May cause sensitization by skin contact. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### S: 2-24-37-60-61

Keep out of the reach of children. Avoid contact with skin. Wear suitable non-latex gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

### 3. Hazards Identification

### Appearance and Odor

Colorless, mobile liquid with citrus odor

# **EMERGENCY OVERVIEW - IMMEDIATE HAZARD**

COMBUSTIBLE LIQUID. ALL MATERIALS IN THIS PRODUCT ARE GRAS (GENERALLY REGARDED AS SAFE). HOWEVER, THIS PRODUCT MAY BE HARMFUL IF SWALLOWED IN SUFFICIENT VOLUME. INGESTION MAY CAUSE VOMITING, HEADACHE, AND OTHER MEDICAL PROBLEMS. THIS PRODUCT MAY BE IRRITATING TO SKIN AND EYES. INHALATION CAN CAUSE NOSE, THROAT, AND RESPIRATORY TRACT IRRITATION, COUGHING AND HEADACHE. EXTREMELY OLD OR IMPROPERLY STORED PRODUCT MAY BEGIN TO ACCUMULATE POTENTIALLY SENSITIZING BREAK-DOWN PRODUCTS.

# **EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING**

PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING AND DERMATITIS OF SKIN.

# **Potential Health Effects**

### Inhalation

Inhalation can cause nose, throat, and respiratory tract irritation. Prolonged exposure to high vapor or mist concentrations may cause dizziness, headaches, and nasal irritation.

#### Ingestion

Ingestion may cause vomiting, headache, and other medical problems.

#### Skin

Repeated or prolonged contact can cause redness, irritation, and scaling of the skin (dermatitis). Normal care and personal hygiene should prevent skin effects.

### **Eyes**

Eye irritation may occur with exposure to concentrated vapors or contact with product.

# Signs and Symptoms of Overexposure

#### Inhalation

May include dizziness, headaches, and nasal irritation.

### Ingestion

May include nausea, vomiting, and headache.

#### Skin

May include drying and redness (dermatitis) of the skin.

### **Eyes**

May include redness, itching, and watering of the eyes.

# Carcinogenicity

None of the components of this material are listed by NTP, OSHA, ACGIH, or IARC as a carcinogen or a suspected carcinogen.

#### Mutagenicity

No information available.

# Reproductive Toxicity

No information available.

# **Teratogenic Effects**

No information available.

### Routes of Entry

May be absorbed through the skin, by inhalation, or by ingestion.

# **Target Organ Statement**

No information available.

### 4. First Aid Measures

### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

# Ingestion

Do not induce vomiting. If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

# Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### Eves

Remove contact lenses at once. Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 5. Fire Fighting Measures

Flash Point: 49 Flash Point Method: TCC Flammable Limits: L.E.L 0.7%; U.E.L. 6.1% Autoignition Temperature: N.A.

# **Extinguishing media**

Dry powder, foam, carbon dioxide. (Water may be ineffective.)

# **Protective Equipment**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### **Hazardous Combustion Products**

Thermal decomposition products may include carbon monoxide, carbon dioxide, and hydrocarbons.

### **Unusual Fire and Explosion Hazards**

None known to National Diagnostics.

NFPA Codes: Health 1 Flammability 2 Reactivity 0

### 6. Accidental Release Measures

### Steps to be taken in case material is released or spilled

Eliminate source of ignition. Ventilate area. Cover with absorbent material (soda ash) to confine spill and sweep or shovel into container. Close container tightly.

### **Waste Disposal Method**

Disposal must be made in accordance with applicable federal, state, and local regulations.

## **Personal Precautions**

Wear appropriate protective equipment as specified in Section 8.

# 7. Handling and Storage

### Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

#### Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials.

# Storage Temperature

20 - 30 C

#### Disposal

Observe all national, state, and local regulations regarding disposal.

# 8. Exposure Controls/Personal Protection

# Airborne Exposure Limits

Component: d-limonene

ACGIH Threshold Limit Value (TLV):

None established

### OSHA Permissable Exposure Limit (PEL):

None established

### **Engineering Controls**

Local exhaust should be adequate.

# **Respiratory Protection**

Not expected to require personal respirator usage, but if vapor concentration becomes high, use approved self-contained air mask.

# **Eye Protection**

Safety glasses.

### Skin Protection

Wear protective gloves and clean body covering clothing.

#### Other Control Measures

N.A.

# 9. Physical Properties

Boiling point (°C) 179 Evaporation rate 0.2 (BuAc=1)
Melting point (°C) 0 Solubity in water Insoluble

Vapor pressure (mmHg) 6.0 mm HG @ 25 C pH N.A.

Vapor density (Air = 1) 4.94 (air = 1) Specific gravity (H<sub>2</sub>O = 1) 0.85 kg/L @ 25 C

% volatile by volume 100

# 10. Stability and Reactivity

# Stability

Stable under normal conditions of use. Incompatible with strong oxidizing agents.

### **Conditions to Avoid**

Heat, sources of ignition.

# **Hazardous Decomposition Products**

Carbon monoxide and unidentified organic compounds may be formed during combustion.

# **Hazardous Polymerization**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### Incompatibles

Avoid contact with strong acids, alkalis, or oxidizing agents.

# 11. Toxicological Information

# **Product LD50 Values**

# Oral Rat LD50 (mg/kg)

GRAS (Generally Regarded As Safe)

# Dermal Rabbit LD50 (mg/kg):

GRAS (Generally Regarded As Safe)

### **Component Cancer List Status**

	NTP Ca	NTP Carcinogen			
	Known	Anticipated	IARC Category		
d-limonene	No	No	None		

# 12. Ecological Information

No information available on the ecological fate of this material.

### 13. Disposal Considerations

Observe all national, state, and local regulations regarding disposal.

# 14. Transport Information

# DOT

Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (d-limonene)

Hazard Class: 3 UN Number: 2319 Packing Group: III

### **IATA**

Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (d-limonene)

Hazard Class: 3 UN Number: 2319 Packing Group: III

# **IMO**

Proper Shipping Name: Terpene Hydrocarbons, N.O.S. (d-limonene)

Hazard Class: 3 UN Number: 2319 Packing Group: III

# 15. Regulatory Information

# **United States**

# **TSCA Regulatory Statement**

All intentional ingredients are listed on the TSCA Inventory.

### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
d-limonene	Yes	No	No	Yes	No

# **Europe**

# **EEC Regulatory**

All intentional ingredients are listed on the European EINECS Inventory.

# **EEC LABEL SYMBOL AND CLASSIFICATION**





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# 16. Other Information

NFPA Codes: Health 1 Flammability 2 Reactivity 0

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