PRODUCT NUMBER: HS-200



# **MATERIAL SAFETY DATA SHEET**

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Histo-Clear

CHEMICAL NAMES/ Distilled essential oils - food grade DESCRIPTION:

MANUFACTURER: National Diagnostics, Inc.

305 Patton Drive

Atlanta, GA 30336

TELEPHONE NUMBER: (800) 526-3867 (404) 699-2121 EMERGENCY NUMBER:

CHEMTREC (800) 424-9300

In case of contact with eyes, rinse immediately with plenty of water and seek

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Component                             | % Comp CAS # Ell               | NECS # TLV (units) |
|---------------------------------------|--------------------------------|--------------------|
| Distilled essential oils - food grade | 100                            | GRAS               |
| EEC LABEL SYMBOL AND CLASSIFI         | CATION                         |                    |
|                                       | <b>R:</b> 10-38                |                    |
|                                       | Flammable. Irritating to skin. |                    |
|                                       | <b>S:</b> 26-37                |                    |

medical advice. Wear suitable gloves.

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IRRITANT

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.

EYES:

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 C

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FLAMMABLE LIMITS:
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L.E.L 0.7%; U.E.L. 6.1%

FLASH POINT METHOD: TCC AUTOIGNITION TEMPERATURE: not available

#### **EXTINGHISHING 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 C

#### DISPOSAL

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

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# AIRBORNE EXPOSURE LIMITS:

Component: Distilled essential oils - food grade

**ACGIH Threshold Limit Value (TLV):** 

GRAS

# OSHA Permissible Exposure Limit (PEL):

#### **ENGINEERING CONTROLS**

Local exhaust should be adequate.

### **RESPIRATORY PROTECTION**

Not expected to require personal respirator usage, but if vapor concentration becomes high, use approved selfcontained 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** 

355 F (179 C)

N.A.

Hist

|                          | /                |                               |             |
|--------------------------|------------------|-------------------------------|-------------|
| Melting Point            | N.A.             | Solubility in Water           | Insoluble   |
| Vapor Pressure<br>mm Hg  | 6.0 mm HG @ 25 C | рН                            | N.A.        |
| Vapor Density<br>Air = 1 | 4.94 (air = 1)   | Specific Gravity<br>(H20 = 1) | 0.85 @ 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 combusion.

#### **HAZARDOUS POLYMERIZATION**

Will not occur

# **INCOMPATIBLES**

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

# **11. TOXICOLOGICAL INFORMATION**

#### **PRODUCT LD50 VALUES**

| Histo-Clear | Oral Rat LD50 (mg/kg):      | GRAS (Generally Regarded As Safe)  |
|-------------|-----------------------------|------------------------------------|
| Histo-Clear | Dermal Rabbit LD50 (mg/kg): | GRAS (Generallyl Regarded As Safe) |
|             |                             |                                    |

### COMPONENT CANCER LIST STATUS

| COMPONENT CANCER LIST STATUS          | NTP Ca |             |               |
|---------------------------------------|--------|-------------|---------------|
| Component                             | Known  | Anticipated | IARC Category |
| Distilled essential oils - food grade | 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**

### Domestic (D.O.T.)

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

Hazard Class: 3

**UN Number: 2319** Packing Group: III

### International (I.A.T.A. / I.M.O.)

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

#### Hazard Class: 3

**UN Number: 2319** 

#### Packing Group: III

# **15. REGULATORY INFORMATION**

# UNITED STATES

### **TSCA Regulatory:**

All intentional ingredients are listed on the TSCA Inventory.

#### SARA 311/312 Hazard Categories

| Component                             | Fire | Pressure | Reactivity | Acute | Chronic |
|---------------------------------------|------|----------|------------|-------|---------|
| Distilled essential oils - food grade | Yes  | No       | No         | No    | No      |

# EUROPE

### **EEC Regulatory:**

All intentional ingredients are listed on the European EINECS Inventory.

### EEC LABEL SYMBOL AND CLASSIFICATION



**R:** 10-38

Flammable. Irritating to skin.

S: 26-37

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

# **16. OTHER INFORMATION**

NFPA CODES: Health: 1 Flammability: 2 Reactivity: 0

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