

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Histomount** PRODUCT NUMBER: HS-103

CHEMICAL NAMES/ DESCRIPTION: Aromatic hydrocarbons.

MANUFACTURER: National Diagnostics, Inc  
305 Patton Drive  
Atlanta, GA 30336

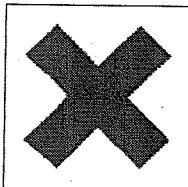
TELEPHONE NUMBER:  
(800) 526-3867  
(404) 699-2121

EMERGENCY NUMBER:  
CHEMTREC (800) 424-9300

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% Comp	CAS #	EINECS #	TLV (units)
Xylene, Mixed Isomers	30 - 50	1330-20-7	215-535-7	100 ppm
Nonhazardous Component	40 - 60			

### EEC LABEL SYMBOL AND CLASSIFICATION



HARMFUL

R: 10-20/21-38

Flammable. Harmful by inhalation and in contact with skin. Irritating to the skin.

S: (2-) 25

Keep out of reach of children. Avoid contact with the eyes.

## 3. HAZARDS IDENTIFICATION

APPEARANCE AND ODOR: Clear, colorless liquid with slight sweet odor.

### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

DANGER! HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. FLAMMABLE LIQUID AND VAPOR.

### EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING

ACUTE OR CHRONIC OVEREXPOSURE TO THIS MATERIAL OR ITS COMPONENTS MAY CAUSE SYSTEMIC TOXICITY INCLUDING ADVERSE EFFECTS TO THE FOLLOWING: KIDNEY, LIVER, BRAIN, BLOOD, SPLEEN, TESTES, FETUS AND CENTRAL NERVOUS SYSTEM.

### POTENTIAL HEALTH EFFECTS

#### INHALATION

Inhalation of vapors may be irritating to the nose and throat. High vapor concentrations are anesthetic and central nervous system depressants.

#### INGESTION

May cause irritation of the mouth, throat, and gastrointestinal tract. Aspiration into lungs may cause chemical pneumonia and lung damage.

#### SKIN

Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin.

#### EYES

Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

#### INHALATION

Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset. Substernal pain, cough, and hoarseness are also reported. Symptoms of central nervous system depression or effects which may occur can include headache, excitation, euphoria, dizziness, incoordination, drowsiness, light-headedness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death, depending on the concentration and duration of exposure.

#### INGESTION

Salivation, pain, nausea, vomiting and diarrhea. Exposure may also cause central nervous system symptoms similar to those listed under "Inhalation."

#### SKIN

Reddening, itching, and inflammation. Repeated or prolonged contact may result in drying, reddening, itching, pain, inflammation, cracking and possible secondary infection with tissue damage.

#### EYES

Pain, tears, burns, sensitivity to light, swelling and possible corneal damage. Prolonged or repeated exposure may cause irritation and conjunctivitis.

#### CARCINOGENICITY

IARC has determined that there is inadequate evidence to assign the carcinogenicity of xylene in humans and in experimental animals (IARC Class 3).

#### MUTAGENICITY

Has been shown to be positive in mutagenicity assays.

#### REPRODUCTIVE TOXICITY

May cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure. Consumption of alcoholic beverages may enhance toxic effects.

#### TERATOGENIC EFFECTS

May cause teratogenic effects.

#### ROUTES OF ENTRY

Inhalation, ingestion, and skin contact.

#### TARGET ORGAN STATEMENT

Pre-existing medical conditions which may be aggravated by exposure include disorders of the skin, eye, heart, kidney, liver, blood, respiratory system, neurological and hemopoietic organs.

### 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:

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: 29C (84F)

FLAMMABLE LIMITS: LEL: 1.0%; UEL: 7.0%

FLASH POINT METHOD: CC

AUTOIGNITION TEMPERATURE: 464C (867F)

#### EXTINGUISHING MEDIA

Dry powder, foam, carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures; protect personnel attempting to stop leak and disperse vapors.

#### 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:

Involvement in a fire causes formation of carbon monoxide and unidentified organic components.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. Sensitive to static discharge.

NFPA CODES: Health: 2      Flammability: 3      Reactivity: 0

### 6. ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate area of leak or spill. Remove all sources of ignition. Isolate hazard area. Collect liquid in an appropriate container or absorb with an inert material and place in a chemical waste container. Do not flush to sewer!

#### 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. Transfer methods should avoid static sparks. Use explosion proof ventilation.

#### 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 (section 10).

STORAGE TEMPERATURE: Room Temperature

#### DISPOSAL

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### AIRBORNE EXPOSURE LIMITS:

Component:	Xylene, Mixed Isomers	
ACGIH Threshold Limit Value (TLV):		100 ppm
OSHA Permissible Exposure Limit (PEL):		100 ppm

#### ENGINEERING CONTROLS

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborn Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

#### RESPIRATORY PROTECTION

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airtight hood, or full-facepiece self-contained breathing apparatus.

#### EYE PROTECTION

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**SKIN PROTECTION**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**OTHER CONTROL MEASURES**

N.A.

**9. PHYSICAL PROPERTIES**

Boiling Point	137 - 140 C	Evaporation Rate	0.7 (Bu Acetate = 1)
Melting Point	-25 C	Solubility in Water	Insoluble
Vapor Pressure mm Hg	4 @ 25 C	pH	Not Applicable
Vapor Density Air = 1	4.8	Specific Gravity (H2O = 1)	0.95
% Volatile by Volume	60		

**10. STABILITY AND REACTIVITY****STABILITY**

Stable under ordinary conditions of use and storage.

**CONDITIONS TO AVOID**

Heat, flames, ignition sources, and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Involvement in fire causes formation of carbon monoxide and unidentified organic compounds.

**HAZARDOUS POLYMERIZATION**

Will not occur

**INCOMPATIBLES**

Xylene, Mixed Isomers

Strong oxidizing agents and strong acids.

Nonhazardous Component

No information found.

**11. TOXICOLOGICAL INFORMATION****PRODUCT LD50 VALUES**

Histomount	Oral Rat LD50 (mg/kg):	10750
Histomount	Dermal Rabbit LD50 (mg/kg):	4250

**COMPONENT CANCER LIST STATUS**

Component	NTP Carcinogen		IARC Category
	Known	Anticipated	
Xylene, Mixed Isomers	No	No	3
Nonhazardous Component	No	No	None

**12. ECOLOGICAL INFORMATION**

Xylene, Mixed Isomers

When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate (mixed xylenes: octanol/water partition coefficient 3.1 - 3.2; bioconcentration factor - 1.3 eels). This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

Nonhazardous Component  
No information found.

### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Xylenes

Hazard Class: 3

UN Number: 1307

Packing Group: III

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

Proper Shipping Name: Xylenes

Hazard Class: 3

UN Number: 1307

Packing Group: III

### 15. REGULATORY INFORMATION

#### UNITED STATES

TSCA Regulatory:

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

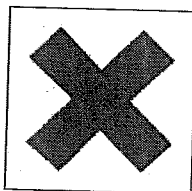
Component	Fire	Pressure	Reactivity	Acute	Chronic
Xylene, Mixed Isomers	Yes	No	No	Yes	Yes
Nonhazardous Component	No	No	No	No	No

#### EUROPE

EEC Regulatory:

All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION



HARMFUL

R: 10-20/21-38

Flammable. Harmful by inhalation and in contact with skin. Irritating to the skin.

S: (2-) 25

Keep out of reach of children. Avoid contact with the eyes.

### 16. OTHER INFORMATION

NFPA CODES: Health: 2      Flammability: 3      Reactivity: 0

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