



## SAFETY DATA SHEET

### 01. IDENTIFICATION

NAME OF PREPARATION OR SUBSTANCE:	Menthol Crystals - Organic
SUPPLIER NAME:	Jedwards International, Inc.
SUPPLIER ADDRESS:	141 Campanelli Drive Braintree, MA 02184 USA
TELEPHONE NUMBER:	(617) 472-9300
RECOMMENDED USE:	For manufacturing and repackaging use only
EMERGENCY TELEPHONE NUMBER:	Chemtrec 1-800-424-9300 (24 hrs)
SYNONYM:	Hexahydrothymol; (1alpha,2beta,5alpha)-5-Methyl-2-(1-methylethyl)cyclohexanol
CHEMICAL FORMULA:	C10H20O

### 02. HAZARD IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
POTENTIAL CHRONIC HEALTH EFFECTS:	
CARCINOGENIC EFFECTS:	Not available
MUTAGENIC EFFECTS:	Not available
TERATOGENIC EFFECTS:	Not available
DEVELOPMENTAL TOXICITY:	Not available

Repeated or prolonged exposure is not known to aggravate medical condition.

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION:	
NAME:	Menthol, L
CAS #:	2216-51-5
% BY WEIGHT:	100
TOXICOLOGICAL DATA ON INGREDIENTS:	
Menthol, L: ORAL (LD50): Acute:	3300 mg/kg [Rat] 3400 mg/kg [Mouse] 800 mg/kg [Cat]
DERMAL (LD50): Acute:	5001 mg/kg [Rabbit]

### 04. FIRST AID MEASURES

EYE CONTACT:	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
SKIN CONTACT:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin



SERIOUS SKIN CONTACT:

with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

INHALATION:

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

SERIOUS INHALATION:

Not available.

INGESTION:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SERIOUS INGESTION:

Not available.

## 05. FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT:

May be combustible at high temperature

AUTO-IGNITION TEMPERATURE:

Not available

FLASH POINTS: CLOSED CUP:

93°C (199.4°F)

FLAMMABLE LIMITS:

Not available

PRODUCTS OF COMBUSTION:

These products are carbon oxides (CO, CO<sub>2</sub>).

FIRE HAZARDS IN PRESENCE

OF VARIOUS SUBSTANCES:

Not available

EXPLOSION HAZARDS IN PRESENCE

OF VARIOUS SUBSTANCES:

Risks of explosion of the product

in presence of mechanical impact:

Not available

Risks of explosion of the product

in presence of static discharge: \

Not available

FIRE FIGHTING MEDIA AND INSTRUCTIONS:

SMALL FIRE:

Use DRY chemical powder.

LARGE FIRE:

Use water spray, fog or foam. Do not use water jet.

SPECIAL REMARKS ON FIRE HAZARDS:

Not available

SPECIAL REMARKS ON EXPLOSION HAZARDS:

Not available

## 06. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

LARGE SPILL:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.



## 07. HANDLING & STORAGE

### PRECAUTIONS:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

### STORAGE:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### PERSONAL PROTECTION:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### PERSONAL PROTECTION IN CASE OF A LARGE SPILL:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### EXPOSURE LIMITS:

Not available

## 09. PHYSICAL & CHEMICAL PROPERTIES

### PHYSICAL STATE AND APPEARANCE:

Solid

### ODOR:

Not available

### TASTE:

Not available

### MOLECULAR WEIGHT:

156.3 g/mole

### COLOR:

Not available

### PH (1% SOLN/WATER):

Not applicable

### BOILING POINT:

212°C (413.6°F)

### MELTING POINT:

42°C (107.6°F)

### CRITICAL TEMPERATURE:

Not available

### SPECIFIC GRAVITY:

0.89 (Water = 1)

### VAPOR PRESSURE:

Not applicable

### VAPOR DENSITY:

5.38 (Air = 1)

### VOLATILITY:

Not available



ODOR THRESHOLD:	Not available
WATER/OIL DIST. COEFF.:	Not available
IONICITY (IN WATER):	Not available
DISPERSION PROPERTIES:	Not available
SOLUBILITY:	Insoluble in cold water

## 10. STABILITY & REACTIVITY

STABILITY:	The product is stable.
INSTABILITY TEMPERATURE:	Not available
CONDITIONS OF INSTABILITY:	Not available
INCOMPATIBILITY WITH VARIOUS SUBSTANCES:	Not available
CORROSIVITY:	Non-corrosive in presence of glass
SPECIAL REMARKS ON REACTIVITY:	Not available
SPECIAL REMARKS ON CORROSIVITY:	Not available
POLYMERIZATION:	No

## 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY:	Eye contact. Inhalation. Ingestion.
TOXICITY TO ANIMALS:	
ACUTE ORAL TOXICITY (LD50):	800 mg/kg [Cat]
ACUTE DERMAL TOXICITY (LD50):	5001 mg/kg [Rabbit]
CHRONIC EFFECTS ON HUMANS:	Not available
OTHER TOXIC EFFECTS ON HUMANS:	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
SPECIAL REMARKS ON TOXICITY TO ANIMALS:	Not available
SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS:	Not available
SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS:	Not available

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
BOD5 AND COD:	Not available.
PRODUCTS OF BIODEGRADATION:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION:	The products of degradation are more toxic.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION:	Not available



### 13. DISPOSAL CONSIDERATIONS

No information available

### 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:	Not a DOT controlled material (United States).
IDENTIFICATION:	Not applicable
SPECIAL PROVISIONS FOR TRANSPORT:	Not applicable

### 15. REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS:	Menthol, L
OTHER REGULATIONS:	Not available
OTHER CLASSIFICATIONS:	
WHMIS (CANADA): CLASS D-2B:	Material causing other toxic effects (TOXIC)
DSCL (EEC):	R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):	
HEALTH HAZARD:	2
FIRE HAZARD:	2
REACTIVITY:	0
PERSONAL PROTECTION:	E

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):	
HEALTH:	2
FLAMMABILITY:	2
REACTIVITY:	0

SPECIFIC HAZARD:	
PROTECTIVE EQUIPMENT:	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

### 16. OTHER INFORMATION

Keep away from children and pregnant women.

**Revised on 12/9/2020**

The information provided above is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.