

# SAFETY DATA SHEET

Mass Corporation  
SDS Number : 101  
Date: May 1, 2015  
Product Name: Menthol Crystals

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## Section 1- Company and Product Identification

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**Supplier Details:** Mass Corporation  
4521 WolfCreek Pkwy  
Louisville, Ky 40241  
Tel: 1-859-246-1668  
**Emergency Phone Number : 1-800-424-9300**  
Non Emergency Phone Number : 1 (859) 246-1668

Mass Corporation urges the customer receiving this Safety Data Sheet ( SDS) to study it carefully to become aware of hazards, if any of the product involved.

**Product Name: Menthol Crystals**

Botanical Name: Mentha arvensis

Synonyms: M. arvensis var. piperascens, Mentha austriaca, Mentha arvensis L.

Chemical Formula C10H20O

INCI Name: Menthol

CAS# 2216-51-5

Country of Origin: India

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## Section 2 – Hazardous Identification

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NFPA

HAZARDS: IRRITANT



SIGNAL WORD: WARNING !

**GHS label elements including precautionary statements.**

**DANGER!** MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC REACTION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.

**Eye Contact:** Irritant due to its phenolic character. Can cause reddening and tearing.

**Skin Contact:** Mild irritant but may cause pain or inflammation on sensitive areas of the skin.

**Ingestion: TOXIC:** If ingested, may cause nausea, vomiting, pain, drowsiness, convulsions, coma or death.

**Inhalation:** Breathing of vapors can irritate mucous membranes/respiratory system.

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## Section 3- Composition Information on Ingredients

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**Chemical Identity:** L-Menthol; Menthol crystals  
**Chemical Name:** Hexahydrothymol  
**Molecular Weight:** 156.3 g/mole  
**EINECS#:** 218-690-9  
**Properties ( %w/w)** 100% pure

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## Section 4- First Aid Measures

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**Eyes: EYE IRRITANT.** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

**Skin:** Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth and seek medical attention immediately. Do NOT induce vomiting. Loosen tight clothing such as collars, ties, belts etc. If the victim is not breathing, perform mouth to mouth resuscitation.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Medical Conditions Generally Aggravated by Exposure:**

Persons with pre-existing skin disorders, eye problems or impaired respiratory function may be more susceptible to the effects of this substance.

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## Section 5- Fire Fighting Measures

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**Flash Point:** 93°C

**Extinguishing media:** Carbon Dioxide, dry chemical or foam. Closed containers may build up pressure at elevated temperature

**Special Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan.

**Unusual Firefighting Hazards:** None identified.

**Protective Equipment:** Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving oils or chemicals.

**Combustion Product:** Carbon Monoxide, Carbon Dioxide

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## Section 6- Accidental Release Measures

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**Personal Precautions:** Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.

**Safety Precautions:** Eliminate all ignition sources. Ventilate area. Determine the need to Evacuate or isolate the area according to your local emergency plan.

**Environmental Precautions:** Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.

**Methods For Cleaning Up:** Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and detergent.

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## Section 7- Handling and Storage

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**Handling:** Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

**Storage:** Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition Make sure the material does not come into contact with substances listed as: "Materials to Avoid".

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### Section 8- Exposure Control/Personal Protection

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**Eyes Protection:** The use of safety glasses is recommended. If a material is to be handled in a manner where splashing may occur, the use of splash goggles or face shield is recommended.  
**Respiratory Protection:** In well- ventilated areas, respiratory protection is not normally required. In confined, poorly ventilated areas the use of "NIOSH" approved respiratory protection normally required (use only if trained in proper use and with acceptable oxygen level).  
**Protective Gloves:** Using chemical resistant gloves is recommended.  
**Protective Clothing:** Using chemical resistant clothing is recommended.  
**Protective Equipment:** An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.

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### Section 9- Physical/Chemical Properties

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**Physical State:** Solid crystalline  
**Color:** White/Clear  
**Odor:** Characteristic of menthol, peppermint-like  
**Refractive Index:** 1.455-1.500 @20 C  
**Specific Gravity (H<sub>2</sub>O = 1):** 0.89  
**Vapor Pressure (mm Hg.):** Not available  
**Vapor Density (AIR = 1):** 5.38  
**Flash Point:** 93°C; 199.4° F  
**Boiling Point:** 212°C; 413.6° F  
**Melting Point:** 42°C; 107.6° F  
**Solubility in Water:** Slightly soluble

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### Section 10- Stability and Reactivity

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**Stability:** Stable  
**Conditions to Avoid:** Excessive heat  
**Incompatibility (Materials to Avoid):** Avoid strong oxidizers  
**Hazardous Decomposition or Byproducts:** Forms CO and/or CO<sub>2</sub> upon burning  
**Hazardous Polymerization:** Will Not Occur

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### Section 11- Toxicological Information

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**Chronic Effects on Humans:** Not Available  
**Carcinogenic Data:** None of the components of this material are listed as a carcinogen  
**Reproductive Toxicity:** No adverse effects on reproduction are known  
**Inhalation:** Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.  
**Skin Contact:** Repeated or prolonged contact can cause redness, irritation and scaling of skin (Dermatitis). Adverse skin effects should be prevented by normal care and personal hygiene  
**Eye Contact:** May irritate eyes.  
**Ingestion:** Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting.  
**Medical Conditions Aggravated by Exposure:** May aggravate dermatitis, psoriasis and other skin conditions.  
**Chronic Toxicity:** May cause allergic reactions on skin

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## Section 12- Ecological Information

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Very toxic to aquatic organism may cause long-term adverse effects in the aquatic environment. Avoid any pollution of ground, surface or underground water.

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## Section 13- Disposal Consideration

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**Waste Disposal Methods:** Do not put into sewer lines. Dispose of according to local, state and federal regulations.

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## Section 14- Transportation Information

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**DOT Classification:** Not regulated as a hazardous material  
**IATA Shipping ( Air):** Not regulated as a hazardous material  
**RID/ADR:** Not regulated as a hazardous material  
**IMO Shipping Description:** Not regulated as a hazardous material  
**Class/Division:** Not restricted  
**Proper Shipping Name:** Menthol Crystals  
**Label:** None  
**Packing Group:** NA  
**ID Number:** NA  
**Hazard:** NA

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## Section 15- Regulatory Information

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**DSCL (EEC):** R36/38 – Irritating to eyes and skin  
**HMIS (USA):** Health: 2 Fire: 2 Reactivity: 0 Protection: E  
**WHMS ( Canada):** Class B  
**Protective Equipment:** Gloves, Lab coat, Dust respirator (approved/certified), Splash Goggles

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## Section 16-Additional Information

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SDS Revision updated to GHS standard.  
Date: 05/01/15

Prepared by QA Dept. of Mass Corp.

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