

# SAFETY DATA SHEET

## MENTHOL CRYSTALS USP

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Menthol Crystals USP

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

#### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word      Warning

#### Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements  
none

#### **Reduced Labeling (<= 125 ml)**

Pictogram



Signal word      Warning

Hazard statement(s)

none

Precautionary statement(s)

none

Supplemental Hazard Statements

none

#### **Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substances**

Synonyms : (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol

(1R,2S,5R)-(-)-Menthol

5-Methyl-2-(1-methylethyl)cyclohexanol

(-)-Menthol

Formula : C10H20O

Molecular weight : 156,27 g/mol

CAS-No. : 2216-51-5

EC-No. : 218-690-9

Component	Classification	Concentration
<b>(1R,2S,5R)-(-)-menthol</b>		
CAS-No. 2216-51-5 EC-No. 218-690-9	Skin Irrit. 2; Eye Irrit. 2; H315, H319	99.0 -100.0%

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

##### **Description of first-aid measures**

###### **General advice**

Show this material safety data sheet to the doctor in attendance.

###### **If inhaled**

After inhalation: fresh air.

###### **In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

###### **In case of eye contact**

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

###### **If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

##### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

##### **Indication of any immediate medical attention and special treatment needed**

No data available

#### 5. FIRE FIGHTING MEASURES

##### **Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Foam Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture**

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

**Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**Reference to other sections**

For disposal see section 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Store below 30 °C in original container tightly closed at dry place.

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Ingredients with workplace control parameters**

**Exposure controls**

**Personal protective equipment**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL

**Body Protection**

protective clothing

**Respiratory protection**

Recommended Filter type: Filter A-(P2)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Control of environmental exposure

Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	White / Shiny / Needle Like Colourless Crystals
Odor	Characteristic (Mentholic)
Odor Threshold	No data available
pH	No data available
Melting point / freezing point	Melting point/range: 41 – 44 °C – lit.
Initial boiling point and boiling range	212 °C – lit.
Flash point	94 °C – closed cup – ISO 3679
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	0,19 hPa at 25 °C – Regulation (EC) No. 440/2008, Annex, A.4
Vapor density	No data available
Relative density	No data available
Water solubility	0,397 g/l at 20 °C – OECD Test Guideline 105 – partly soluble
Partition coefficient (n-octanol/water)	log Pow: 3,15 at 25 °C – Regulation (EC) No. 440/2008, Annex, A.8 – Bioaccumulation is not expected
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Kinematic: No data available; Dynamic: No data available
Explosive properties	No data available
Oxidizing properties	No data available

**Other safety information**

No data available

**10. STABILITY AND REACTIVITY**

**Reactivity**

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

**Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature)

**Possibility of hazardous reactions**

Violent reactions possible with:

Strong oxidizing agents

**Conditions to avoid**

Strong heating.

**Incompatible materials**

No data available

**Hazardous decomposition products**

In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity**

No data available

LC50 Inhalation - Rat - male and female - 4 h - 5.289 mg/l

(OECD Test Guideline 403)

**Skin corrosion/irritation**

Skin - Rabbit

Result: irritating - 4 h (OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: irritating

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

**Germ cell mutagenicity**

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

**Toxicity**

Toxicity to fish

static test LC50 - Danio rerio (zebra fish) - 15,6 mg/l - 96 h (Directive 67/548/EEC, Annex V, C.1.)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 26,6 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae

static test ErC50 - Desmodesmus subspicatus (green algae) - 21,4 mg/l - 72 h  
(OECD Test Guideline 201)

Toxicity to bacteria

static test EC50 - activated sludge - 237 mg/l - 3 h (OECD Test Guideline 209)

**Persistence and degradability**

**Biodegradability**  
aerobic - Exposure time 28 d  
Result: 92 % - Readily biodegradable. (OECD Test Guideline 301D)

Theoretical oxygen demand  
2.970 mg/g Remarks: (Lit.)

**Bioaccumulative potential**  
No data available

**Mobility in soil**  
No data available

#### **Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects**  
No data available

### **13. DISPOSAL CONSIDERATIONS**

#### **Waste treatment methods**

**Product**  
According to regulation and procedure.

### **14. TRANSPORT INFORMATION**

#### **UN number**

ADR/RID: - IMDG: - IATA: -

#### **UN proper shipping name**

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

#### **Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

#### **Packaging group**

ADR/RID: - IMDG: - IATA: -

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**Special precautions for user**

**Further information**

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National legislation** : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

**Other regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

## 16. OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.**