

SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : April 22, 2022

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Menthol Crystals
Botanical name	:	Mentha arvensis
INCI name	:	Menthol
CAS #	:	1490-04-6 / 2216-51-5 / 89-78-1 / 15356-70-4
Country of Origin	:	India
EINECS #	:	216-074-4 / 218-690-9 / 201-939-0 / 239-388-3
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Skin Corrosion / Irritation - Category 2

Serious eye damage/eye irritation - Category 2B

GHS Label elements, including precautionary statements



Signal: 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/protective clothing/eye protection/face protection.

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

P321 Specific treatment (see section 4 on this label).

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

P337+P313

If eye irritation persists get medical advice/attention.

P362

Take off contaminated clothing.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Menthol	1490-04-6 / 2216-51-5 / 89-78-1 / 15356-70-4	216-074-4 / 218-690-9 / 201-939-0 / 239-388-3	100%

4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Foam. Dry Powder. Carbon dioxide.

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes

Use tightly sealed goggles.

Skin

Use protective gloves (Neoprene gloves Nitrile rubber, NBR).

The glove material has to be impermeable and resistant to the product/substance/preparation.

Chemical and oil resistant clothing is recommended.

Respiratory

Half-face filter respirator: Type P filter material. European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Exposure limit values

I-Menthol

DNEL (Workers) - Inhalation, Long-term, Local effects - 52,5 (mg/m³)

DNEL (Workers) - Inhalation, Long-term, Systemic effects - 52,5 (mg/m³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Colorless to pale yellow translucent crystals.
Odor	:	Peppermint-like odor..
Melting Point/Freezing Point	:	41 - 44 °C (MP)
Initial b.p and boiling range	:	216 °C
Flash point	:	95°C
Relative density	:	0.85 - 0.86 g/cm ³ @ 20°C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Partition coefficient	:	3.15 log POW @ 25°C
Optical rotation	:	-51° to -45°

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not available.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Slightly hazardous in case of skin contact (irritant).

Possible irritation should be prevented by wearing safety glasses.

Ingestion

May be fatal if ingested.

12. ECOLOGICAL INFORMATION

Ecotoxicity

EC₅₀ (static) = 237 mg/L (activated sludge) ; EC₅₀ (48hr) (static) = 26.6 g/L (Daphnia magna); EC₅₀ (72hr) = 21.4 mg/L (Desmodesmus subspicatus); LC₅₀ (96hr) (static) = 15.6 mg/L (Danio rerio)

Persistence and degradability

Biodegradation in water: readily biodegradable. Biodegradation in soil: According to REACH REGULATION No 1907/2006 (EC), Official Journal of the European Union, Annex IX column 2, the study does not need to be conducted as L-menthol is readily biodegradable.

Bio - accumulative potential

Not Bioaccumulative.

Mobility in soil

Adsorption coefficient: K_{oc} (estimated from MCI): 88.15 L/kg; K_{oc} (estimated from Log K_{ow}): 149 L/kg

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION

US DOT Shipping Description (Land)

Not regulated

IMO-IMDG Shipping Description (Sea)

Not regulated

IATA Shipping Description (Air)

Not regulated

15. REGULATORY INFORMATION

DSL / NDSL

Listed.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

Revision date : April 22,2022

Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that Jurisdiction is limited to the province of Ontario, Canada.