

RAW essentials

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SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: Menthol Crystals
Synonyms: (-)-Menthol, l-Menthol
CAS Number: 2216-51-5
Molecular Formula: C₁₀H₂₀O

1.2 RELEVANT USAGE OF ITEM

Raw material for cosmetic formulations

1.3 Supplier Information

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SECTION 2 – HAZARDS IDENTIFICATION

2.1 GHS Classification:

Skin Irritation (Category 2)
Eye Irritation (Category 2)
Specific Target Organ Toxicity – Single Exposure (Respiratory Tract Irritation, Category 3)

2.2 Hazard Statements:

H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

2.3 Precautionary Statements:

P261: Avoid breathing dust/fume
P264: Wash skin thoroughly after handling
P280: Wear protective gloves/eye protection
P302+P352: If on skin: wash with plenty of soap and water
P305+P351+P338: If in eyes: rinse cautiously with water
P337+P313: If eye irritation persists, get medical advice

SECTION 3 – FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, seek medical attention.
Skin Contact: Wash with soap and water. Remove contaminated clothing.
Eye Contact: Rinse with water for 15 minutes. Seek medical advice if irritation persists.
Ingestion: Rinse mouth. Do not induce vomiting. Seek medical help if large amount ingested.

SECTION 4 – FIRE-FIGHTING MEASURES

Flammability: Combustible solid
Suitable Extinguishing Media: Use CO₂, dry chemical, foam
Hazardous Combustion Products: Carbon monoxide, carbon dioxide

SECTION 5 – HANDLING AND STORAGE

Store in a cool, dry, well-ventilated area in tightly closed containers.
Avoid contact with skin, eyes, and clothing. Use in well-ventilated areas.

SECTION 6 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE: Gloves (nitrile), safety goggles, dust mask if generating powder
Engineering Controls: Local exhaust ventilation

SECTION 7 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline solid
Odour: Characteristic minty
Melting Point: 42–45 °C
Boiling Point: 212 °C
Solubility: Slightly soluble in water; soluble in ethanol, chloroform, ether
Vapor Pressure: Low

SECTION 8 – STABILITY AND REACTIVITY

Stable under normal conditions
Avoid strong oxidizers
No hazardous polymerization

SECTION 9 – TOXICOLOGICAL INFORMATION

LD50 (oral, rat): ~3,200 mg/kg
Irritating to skin and eyes upon prolonged or repeated contact

SECTION 10 – ECOLOGICAL INFORMATION

Not highly toxic to aquatic life, but avoid release to environment.

SECTION 11 – DISPOSAL CONSIDERATION

Dispose of in accordance with local regulations.
Considered as hazardous waste if contaminated.

SECTION 12 – TRANSPORTATION INFORMATION

Not restricted for transportation purposes.

SECTION 13 – DISCLAIMER

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