



**Eyes Contact:** Immediately flush eyes with plenty of water for at least 15 Minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately .

**Skin:** Immediately Flush skin with plenty of soap and water . Removing contaminated clothing and shoes. Get medical attention . Wash clothing before reuse. Thoroughly clean shoes before reuse .

**Ingestion:** Induce vomiting immediately as directed by medical personnel .Never give anything by mouth to an unconscious person. Get medical aid .

**Inhalation:** Remove fresh air immediately . If not breathing give artificial respiration with the aid of pocket mask equipped with a one way valve or other proper respiratory medical device .Get medical attention .

## Section-5-Fire Fighting Measures

**Fire:** As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Fire may produce toxic fumes .

**Explosion :** Not considered to be an explosion hazard .

**Extinguishing Media:** Dry chemical, chemical foam, Water or carbon dioxide. Water spray may be used to keep fire-exposed containers cool .

**Special Information :** In the event of a fire , wear full protective clothing and NIOSH-approved self contained

Breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode .

## Section 6-Accidental Release Measures

Remove all sources of ignition .Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8.

**Spills :** Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container .

## Section 7-Handling and Storage

**Storage:** Keep in a tightly closed container, Stored in a cool, dry, ventilated area between 10 deg C to 30 deg. C. . Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residue(dust, solid ); observe all warnings and precautions listed for the product.

## Section 8 Exposure Controls/ Personal Protection

**Airborne Exposure Limits :** Not established.

**Ventilation System :** A system of local and/ or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of into the

general work area. Please refer to the ACGIH document, *Industrial ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved) :**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive pressure, air-supplied respirator. WARNING : Air-purifying respirators do not protect workers in oxygen-deficient atmospheres .

**Skin Protection :** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact .

**Eye Protection :**

Use chemical safety goggles and/ or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area .

## Section 9 – Physical and Chemical Properties

**Physical State:** Solid / Crystals

**Appearance:** Colorless or white crystals.

**Odor:** Peppermint odor.

**pH:** No information found .

**Solubility:** slightly soluble in water.

**Density:** 0.89.

**Flash Point :** 200deg F.

**Molecular Formula:** C<sub>10</sub>H<sub>20</sub> O

**Molecular Weight:** 156.27

**Boiling Point :** 212 deg.C.

**Melting Point :** 41 – 44 deg.C.

## Section 10-Stability and Reactivity

**Stability:** stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Heat, flames, ignition sources and incompatibles .

**Incompatibilities.** Strong oxidizers, phenol, chloral hydrate, beta naphthol , pyrogallol, and resorcinol or thymol in titrations.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition..

**Hazardous Polymerization:** will not occur .

## Section 11-Toxicological Information.

Menthol : Oral (rat) LD50: 3300 mg/kg; Skin (rabbit) LD50: > 5 GM/KG.

Investigated as a mutagen.

-----\ Cancer Lists \

Ingredient Category	-----NTP Carcinogen-----		IARC
	Known	Anticipated	
Menthol (2216 – 51 – 5 )	No	No	None

## Section 12-Ecological Information

### Environmental Fate :

When released into the soil, this material is not expected to leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released to water, this material is expected to quickly evaporate. This material has an experimentally-determined bio concentration factor (BCF ) of less than 100.

When released into the air, this material is expected to be readily degraded by reaction with photo chemically

Produced hydroxyl radicals.

## Section 13- Disposal Considerations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused content in accordance with federal, state and local requirements .

## Section 14-Transport Information.

IATA

Not regulated as a hazardous material .

IMO

Not regulated as a hazardous material .

RID/ARD

Not regulated as a hazardous material .

## Section 15-Regulatory Information

Hazard Symbols : Xi Risk Phrases : R 36/37/38 Irritating to eyes, Respiratory system

Safety Phrases : S 24/25 Avoid contact with eyes and skin .

-----\ Chemical Inventory Status - Part

Ingredient	TSCA	EC	JAPAN
AUSTRALIA			
Menthol ( 2216 - 51 - 5 )	Yes	Yes	Yes

-----\ Chemical Inventory Status - Part

Ingredient	KOREA	DSL	NDSL	Phil.
Menthol ( 2216 - 51 - 5 )	No	Yes	No	Yes

-----\ Federal, State & International Regulations - Part

Ingredient	--SARA 302 -	IFQ	List	SARA 313	Chemical
Menthol ( 2216 - 51 - 5 )	No	No	No	No	No

-----\ Federal, State & International Regulations - Part

Ingredient	CERCLA	-RCRA-	TSCA
Menthol ( 2216 - 51 - 5 )	No	No	No

Chemical Weapons Convention : No      TSCA 12 (b) : No      CDTA : No  
 SARA 311/312 : Acute : Yes      Chronic : Yes      Fire : No      Pressure : No

**Australian Hazchem Code :** None allocated .

**Poison Schedule :** None allocated

**W/EMIS :**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations ( CPR )

And the MSDS contains all of the information required by the CPR .

## Section 16- Additional Information

**NFPA Rating :** Health: **2** Flammability : **1** Reactivity : **0**

**Label Hazard Warning :**

DANGER: MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC REACTION.

**Label Precautions :**

Avoid breathing dust.

Avoid breathing vapor.

Avoid contact with eyes, skin, and clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

**Label First Aid :**

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. In case of skin contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In all cases, get medical attention.

**Footnote:**

This information is supplied for the safe use, rather than the commercial performance of our product, and is as precise and reliable as Mentha & Allied Products Limited is able to provide, based on information taken from a wide range of sources. The data should not be construed as a warranty or representation for which Mentha & Allied Products Ltd. assumes any legal responsibility. It is the duty of the user to ensure that our products is suitable for the purposes intended and to make their own assessment of work place risk as defined by COSHH.

***Name & Designation***

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