

**Menthol Natural USP**

SDS Preparation Date (mm/dd/yyyy): 05/24/2015

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**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Menthol Natural USP****Product Code(s)** : Not available.**Recommended use of the chemical and restrictions on use**: Personal care  
No restrictions on use known.**Chemical family** : Mixture**Name, address, and telephone number of the supplier:****Essential Ingredients**2408 Tech Center Parkway  
Suite 200  
Lawrenceville, GA, US  
30043

Supplier's Telephone # : (770) 831-9010

**24 Hr. Emergency Tel #** : (800) 424-9300 (CHEMTREC)**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

WHMIS/OSHA Classification:

Skin irritation Category 2

Eye irritation Category 2A

STOT - single exposure Category 3 Respiratory irritation

**Label elements***Hazard pictogram(s)**Signal Word*

WARNING!

*Hazard statement(s)*

Causes skin irritation. Causes serious eye irritation. Causes respiratory tract irritation.

*Precautionary statement(s)*

Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Wear protective gloves/clothing and eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. Store in well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local regulation.

**Other hazards**

None expected, when used as intended.

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

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<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
Menthol crystals USP		2216-51-5	100.00

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Call a physician or poison control centre immediately. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing is irregular or stopped, administer artificial respiration. When symptoms persist or in all cases of doubt seek medical advice.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.
- Eye contact* : Flush eyes with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention/advice.

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

- : IF exposed or concerned: Get medical attention/advice.

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

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable extinguishing media* : Water, dry chemical, foam or carbon dioxide may be used as appropriate.
- Unsuitable extinguishing media* : Water spray may ONLY be useful in cooling equipment exposed to heat and flame.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Not flammable under normal conditions of use.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Not considered flammable.

#### Hazardous combustion products

- : Emits toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides under fire conditions.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

##### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

- : Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

#### Methods and material for containment and cleaning up

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- : Scoop up spilled material and collect in recovery container for disposal according to applicable regulations. Avoid dust formation.

### Special spill response procedures

- : Prevent entry into waterways, sewer, basements or confined areas.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Use with adequate ventilation. Avoid breathing mist or vapours. Wear suitable protective equipment during handling. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep container tightly closed when not in use. Wash thoroughly after handling.

#### Conditions for safe storage

- : Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

#### Incompatible materials

- : Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Menthol crystals USP	N/Av	N/Av	N/Av	N/Av

#### Exposure controls

##### Ventilation and engineering measures

- : Avoid breathing dust and fume. Use with adequate ventilation. Mechanical assisted ventilation may be necessary. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists.

##### Skin protection

- : Gloves impervious to the material are recommended. Wear sufficient clothing to prevent skin contact.

##### Eye / face protection

- : Wear chemical splash goggles to prevent dusts from entering the eyes.

##### Other protective equipment

- : Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

##### General hygiene considerations

- : Avoid breathing dust and fume. Avoid generating dust, and do not allow dust build-up. Wash hands thoroughly after using this product, and before eating, drinking or smoking.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : White crystals.
- Odour** : Peppermint odor
- Odour threshold** : N/Av
- pH** : Not available.
- Melting/Freezing point** : 42 °C
- Initial boiling point and boiling range** : 212 °C
- Flash point** : N/Av
- Flashpoint (Method)** : N/Av
- Evaporation rate (BuAe = 1)** : N/Av

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Flammability (solid, gas) : N/Av  
Lower flammable limit (% by vol.) : N/Av  
Upper flammable limit (% by vol.) : N/Av  
Oxidizing properties : None known.  
Explosive properties : N/Av  
Vapour pressure : N/Av  
Vapour density : N/Av  
Relative density / Specific gravity : 0.89  
Solubility in water : Slightly soluble.  
Other solubility(ies) : N/Av  
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : Not available.  
Auto-ignition temperature : N/Av  
Decomposition temperature : N/Av  
Viscosity : N/Av  
Volatiles (% by weight) : N/Av  
Volatile organic Compounds (VOC's) : N/Av  
Absolute pressure of container : N/Av  
Flame projection length : N/Av  
Other physical/chemical comments : No additional information.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not normally reactive.  
Chemical stability : Stable under the recommended storage and handling conditions prescribed.  
Possibility of hazardous reactions : Hazardous polymerization does not occur.  
Conditions to avoid : Avoid contact with incompatible materials.  
Incompatible materials : Strong oxidizing agents  
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:**

Routes of entry inhalation : YES  
Routes of entry skin & eye : YES  
Routes of entry Ingestion : YES  
Routes of exposure skin absorption : NO

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### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

*Sign and symptoms Inhalation*

: Dusts may cause irritation of the mucous membranes and respiratory tract.

*Sign and symptoms ingestion*

: May be irritating to mouth, nose and throat.

*Sign and symptoms skin*

: May irritate skin.

*Sign and symptoms eyes*

: Causes eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

#### Potential Chronic Health Effects

: None known or reported by the manufacturer.

#### Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

: No component of this product present at levels greater than, or equal to, 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, IARC, OSHA, or NTP.

#### Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

#### Sensitization to material

: None known or reported by the manufacturer.

#### Specific target organ effects

: No data available to indicate the product, or any components present at greater than 1%, are classified as hazardous for target organ toxicity.

#### Medical conditions aggravated by overexposure

: None known or reported by the manufacturer.

#### Synergistic materials

: None known.

#### Toxicological data

:

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Menthol crystals USP	N/Av	3300 mg/kg	N/Av

#### Other important toxicological hazards

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

: No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data.

#### Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Menthol crystals USP	2216-51-5	96 Hr LC50 Pimephales promelas: 18.9 mg/L [flow-through]	N/Av	

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Menthol crystals USP	2216-51-5	N/Av	N/Av	

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Menthol crystals USP	2216-51-5	N/Av	N/Av	

**Persistence and degradability**

: Not known.

**Bioaccumulation potential**

: Not known.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
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**Mobility in soil** : Not known.

**Other Adverse Environmental effects**

: None known.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.




**Methods of Disposal**

: Contact your local, state or federal environmental agency for specific rules. Landfilling in permitted solid waste facility recommended.

**RCRA**

: It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

#### SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				

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IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not available.

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Menthol crystals USP	2216-51-5	Yes	N/Ap	N/Av	No	NS

All components are on the U.S. EPA TSCA Inventory list.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Menthol crystals USP	2216-51-5	No	N/Ap	No	No	No	No	No	No

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

**Canadian Information:**

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Menthol crystals USP	2216-51-5	218-690-9	Present	Present	(3)-2333	KE-24409	Present	HSR003330

**SECTION 16. OTHER INFORMATION**

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
CA: California

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CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%.  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.  
2. International Agency for Research on Cancer Monographs, searched 2015.  
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - October 2012 version.  
6. California Proposition 65 List - January 23, 2015 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

**Preparation Date (mm/dd/yyyy)**

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**Other special considerations for handling**

: None known.



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<b>HMIS Rating</b>	:	* - Chronic hazard	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious
		<i>Health:</i> *2		<i>Flammability:</i> 1		<i>Reactivity:</i> 0
<b>NFPA Rating</b>	:	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	
		<i>Health:</i> 2	<i>Flammability:</i> 1	<i>Instability:</i> 0	<i>Special Hazards:</i>	

<p><b><u>Prepared for:</u></b> Essential Ingredients 2408 Tech Center Parkway Suite 200 Lawrenceville, GA 30043 Phone (770) 831-9188 www.essentialingredients.com</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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