

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Menthol Crystals
Botanical name	Mentha arvensis
Synonyms	M. arvensis var. piperascens, Mentha austriaca, Mentha arvensis L.
INCI name	Menthol
CAS #	2216-51-5
Product use	Domestic and Industrial
Supplier	WFMed
Address	8245 Backlick Rd Unit D, Lorton VA 22079 USA
Fax	703-339-1999
Telephone number	703-339-5388
Emergency phone number	703-339-5388

2. HAZARD(S) IDENTIFICATION

GHS Hazard Classification

Skin corrosion/irritation - Category 2
Serious eye damage/irritation - Category 1
Serious target organ toxicity - single exposure - Category 3, respiratory system
Acute aquatic toxicity - Category 3
Chronic aquatic toxicity - Category 3

GHS Label Elements

Pictogram



Signal Word

Danger

Hazard Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements - Prevention

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash face, hands and any exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P302 + P352
P304 + P340

IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303 + P351 + P338

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

P310
P321

Immediately call a POISON CENTER or doctor/ physician. Specific treatment (see supplemental first aid instructions on this label).

P332 + P313
P362

If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Precautionary Statements - Storage

P403 + P233
P405

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC)

Not applicable

Other Information

Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Contents	L-menthol
Formula	C ₁₀ H ₂₀ O
Molecular weight	156 g/mol
CAS #	2216-51-5

4. FIRST-AID MEASURES

Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Most important symptoms and effects, both acute and delayed

Symptoms 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

Note to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Carbon oxides

Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Exposure guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory books.
---------------------	--

Appropriate engineering controls

Engineering controls	Showers, eyewash stations, ventilations systems.
----------------------	--

Individual protection measures, such as personal protective equipment

Eye/Face protection	Wear safety glasses with side shields (or goggles).
Skin/Body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations.
Respiratory protections must be provided in accordance with current local regulations.

General hygiene considerations

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Avoid breathing (dust, vapor, mist, gas). Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Crystalline
Appearance	Colorless to pale yellow prismatic or acicular needle-like crystals.
Odor	Characteristic peppermint-like odor

Property	Values	Remarks / Method
Melting point / range	41.0°C - 44.0°C	None known
Refractive index (@ 20°C)	1.455 - 1.500	None known
Density (@ 20°C)	0.880 - 0.900	None known
Optical rotation (@ 20°C)	-50.0 - -49.0	None known
Solubility (@ 20°C)	1.0 g in 5 mL	None known
Water solubility	Insoluble	None known
Solubility in other solvents	Soluble in alcohol/oil	None known
Non-volatile matter	< 0.05%	None known
Assay	> 99.0%	None known
Flash point	93°C	None known

10 . STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possible hazardous reactions

No data available.

Conditions to avoid

No data available.

Incompatible materials

Strong oxidizing agents, phenol, chloral hydrate, beta-naphthol and resorcinol or thymol titrations.

Hazardous decomposition

When heated to decomposition, produces acrid fumes and carbon monoxide smoke.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Symptoms May be fatal if swallowed. Harmful if inhaled. Causes irritation

to the skin, eyes and respiratory tract. May also cause allergic reaction.

Acute toxicity

LD50 Oral	cat	800 mg/kg
LD50 Oral	mouse	3,400 mg/kg
LD50 Dermal	rabbit	> 5,000 mg/kg
LD50 Intraperitoneal	rat	700 mg/kg
LD50 Intraperitoneal	mouse	6,600 mg/kg
LD50 Intraperitoneal	cat	800 mg/kg
LD50 Subcutaneous	rat	1,000 mg/kg
LD50 Subcutaneous	mouse	5,000 mg/kg

Germ cell mutagenicity

No data available

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity

No data available

STOT - single exposure

Inhalation - May cause respiratory irritation.

STOT - repeated exposure

No data available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life

LC50 - Pimephales promelas (fathead minnow) - 18.9 mg/l - 96 h

Persistence and degradability

No information available.

Bioaccumulative potential

Indication of bioaccumulation.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of waste

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION

US DOT (Land)

Not dangerous goods

IMDG/IMO (Sea)

Not dangerous goods

IATA/ICAO (Air)

Not dangerous goods

15. REGULATORY INFORMATION

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

16. OTHER INFORMATION

Creation date: 9/11/2012

Revision date: 1/13/2017

Disclaimer & Caution:

The information contained in Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of WFMed's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user. Customers should purchase products from WFMed with the clear understanding that all products must be used at the customer's own discretion and only after referencing Material Safety Data Sheets (MSDS) and all other relevant technical information specific to the product. WFMed shall not be held responsible for any damages to the property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. 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 with any manufacturing process, WFMed strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing. The information on the WFMed website is obtained from current and reliable sources but makes no representation as to its comprehensiveness or accuracy. Nothing contained herein should be considered as a recommendation by WFMed as to the fitness for any use. As the ordinary or otherwise uses of this product is outside the control of WFMed 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 WFMed is limited to the value of the goods and does not include any consequential loss. WFMed shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.



www.wfmed.com

WFMed : 8245 Backlick Rd Unit D, Lorton VA 22079 USA
Tel: 703-339-5388 Fax: 703-339-1999 wfmed.com

