

## MATERIAL SAFETY DATA SHEET

### Section 1. Product Identification: MultiSal™ Menthol PID# 2403

Physical and Chemical Characteristics:

Color:	White
Form:	Fine Powder
Average Particle Size	22 +/- 5 Microns
Moisture	5% maximum

### Section 2. Information on Ingredients/INCI Names:

1. Menthyl Crystals
2. Glyceryl Stearate
3. Cocamidopropyl Dimethylamine
4. Zea Mays (Corn) Starch
5. Hydrolyzed Corn Starch
6. Hydrolyzed Starch Octenylsuccinate

### Section 3. Hazards Identification: Non Hazardous

Possible physical irritant from dust particles. Potential for dust explosion.

Eye	Particulates may scratch eye surfaces/cause mechanical irritation.
Skin Contact	Low order of toxicity
Inhalation	This product can produce a nuisance dust, which should be maintained below a time weighted average of 10 mg/m <sup>3</sup> .
Ingestion	No hazard in normal industrial use

### Section 4. First-aid Measures:

Eye	Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.
Skin Contact	Immediately flush skin or eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation	Remove to fresh air.
Ingestion	If large quantities of this material are swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

### Section 5. Fire Fighting Measures:

Auto Ignition	See Fire & Explosion
Flash Point	Not Applicable
Extinguishing Media	Dry chemical; CO <sub>2</sub> ; Water fog; Foam
Firefighting Procedures	No special procedures are required
Fire & Explosion Hazards	Minimum ignition temperature of dust cloud- approx. 39°C. Minimum explosive concentration- approx. 70 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.06 joules.
Hazardous Combustion Products	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.
NFPA Flammability	Hazard Class 1 = very slight

**Section 6. Accidental Release Measures:**

Spill and Leak Procedures	Spills should be taken up with suitable absorbent and placed in containers. Spilled area can be washed with water; collect wash water for approved disposal.
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For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

**Section 7. Handling and Storage:**

Storage Temperature	Ambient
Handling/Storage	Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep/vacuum up & place in suitable container to dispose.
Ventilation Requirements	General
Static Electricity Sensitivity	Yes
Mechanical Impact Sensitivity	No

**Section 8. Exposure Controls/Personal Protection:**

Ventilation Requirements	General
Eye Protection Requirements	Safety glasses are optional.
Clothing Requirements	Lab coat, regular
Wash Requirements	Wash with soap and water
Respirator Requirements	NIOSH approved dust mask.

**Section 9. Physical and Chemical Properties:**

Pure Substance or Mixture	Mixture
Physical Form	Solid, powder
Appearance/Odor	White/ odor less
Odor Threshold	Not available
Molecular Weight	>10000
Solubility In Water	Soluble, dispersible
Specific Gravity (Water=L)	1.500, may vary depend on the content and loading
Volatiles	None
Auto Ignition	See Fire & Explosion Hazards

**Section 10. Stability and Reactivity:**

Stability	Stable
Materials to Avoid	Avoid generating dust.
NFPA Reactivity	Hazard Class 0 = Insignificant
Hazardous Decomposition Products	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

**Section 11. Toxicological Information:** Chronic (Long Term) Effects of Exposure

Route of Entry	Eye contact, Skin contact, Inhalation, Ingestion
Effects of Chronic Exposure	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
Target Organs	Not Applicable
Carcinogen	No



RELEASE BY DESIGN

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**Section 12. Ecological Information**

Not available.

**Section 13. Disposal Considerations**

Waste Disposal Methods	Dispose of spilled material in accordance with state & local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.
Empty Container Warnings	Note that this handling and disposal information may also apply to empty containers, liners, and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; final responsibility for handling and disposal is with the owner of the waste.

**Section 14. TRANSPORTATION INFORMATION**

United States : Not a DOT controlled material

**Section 15. Regulatory Information**

TSCA Inventory	We certify all components are either on the TSCA inventory or qualify for an exemption.
FDA	21CFR172.892
SARA/TITLE III	Acute: Yes Chronic health: NO Fie: No Sudden release of pressure: NO Reactive: NO

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

**Section 16. Other Information**

Heavy metal content: <2 ppm (as lead) – Food Chemicals Codex spec.  
FEMA/FDA GRAS Certification with a statement saying manufacturing with Good manufacturing Practice (GMP).

The following chemicals are not added and are not reasonably expected to be present based on product chemistry.

- Ethyl alcohol: 0%
- Benzyl alcohol: 0%
- Propionic acid: 0 %
- 3,4 Benzopyrezens: 0%
- Agaric acid: 0%
- Alain: 0%
- Beta asarone: 0%
- Berberine: 0%
- Hydrocyanic acid: 0%
- Hyporicine: 0%
- Pulegone: 0%
- Quassine: 0%
- Safrole and isoafrole: 0%
- Santoinin: 0%
- Thuyone (alpha and beta): 0%
- Coumarin: 0%