

MATERIAL SAFETY DATA SHEET

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MSDS Date 11/06/98  
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SECTION I - Product and Company Information

Product Name MICROFAB AU 100 LIQ COND SALT  
HMIS Hazard Rating Health: 3 Fire: 0 Reactivity: 0  
Company Identification ENTHONE-OMI INC.  
P.O. Box 1900  
New Haven CT 06508  
Contact Regulatory Affairs  
Telephone/Fax (203)934-8611 / (203)799-8179  
Emergency CHEMTREC  
(800)424-9300  
Preparer James P. Link  
Regulatory Consultant

MICROFAB is a registered trademark of Enthone-OMI Inc.

SECTION II - Ingredient and Hazard Information

Ingredient Name	CAS Number	Percent	TSCA
WATER	7732-18-5	< 80.0	Y
SODIUM SULFITE	7757-83-7	< 25.0	Y

All ingredients comply with applicable rules or orders under TSCA.

Weight percents listed above are within 5% of the actual value.

Carcinogen:  
Not listed by NTP, IARC, OSHA.  
Reference:  
NA

SECTION III - Hazards Identification

Inhalation:  
Mist or vapor may irritate respiratory tract.  
Skin Contact:  
Can cause severe irritation.  
Eye Contact:  
Causes burns with damage to eyes and possible blindness.

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Ingestion:

Can cause irritation to mouth, throat, esophagus, and stomach. Moderately toxic. May cause severe allergic reaction in some asthmatics. Large doses can cause violent colic and diarrhea, circulatory disturbances, CNS depression and can be fatal.

Chronic:

Possible mutagenic effects.

SECTION IV - First Aid Measures

Skin Contact:

Immediately wash contaminated skin with plenty of water. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear if it cannot be decontaminated. If irritation continues, seek medical attention.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes holding lids apart to ensure flushing of entire surface. Washing eyes within several seconds of exposure is essential to minimize damage. Seek immediate medical attention.

Ingestion:

Never give anything by mouth to an unconscious person, obtain immediate medical attention. If vomiting occurs spontaneously, keep airway clear. If swallowed DO NOT INDUCE VOMITING, give large amounts of water.

Seek immediate medical attention.

Inhalation:

Remove person from contaminated area. If breathing has stopped, resuscitate and administer oxygen if available. Seek immediate medical attention.

SECTION V - Fire-Fighting Measures

Flash Point > 200.0øF  
GCC - General Closed Cup

Special Fire-Fighting Procedures:

Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when potential for exposure to vapors or products of combustion exists.

Unusual Fire-Fighting Hazards:

Contact with acids will liberate toxic and potentially fatal sulfur dioxide gas.

Extinguishing Media:

This product is not combustible.  
Use water fog or spray.

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Use carbon dioxide.  
Use foam.

SECTION VI - Accidental Release Measures

Avoid contact with skin, eyes and clothing. Wear protective equipment (see Section VIII). Do not breathe mist or vapors. Contain spill and soak up in suitable absorbent. Shovel into plastic lined steel containers. Dilute residual material with large amounts of water. Dispose of in accordance with Local, State and Federal regulations.

SECTION VII - Handling and Storage

Store in a cool, dry place. Keep away from acids and oxidizers. Loosen cover cautiously when opening.  
Additional Information:  
Wash thoroughly after handling.  
Work/Hygienic Practices:  
Emergency eye wash and safety shower should be available. Wash thoroughly after handling.

SECTION VIII - Exposure Controls and Personal Protection

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
WATER	NA	NA	NA	NA	NA
SODIUM SULFITE	NA	NA	NA	NA	NA

Respirator:

Use NIOSH approved respirator when air concentration is greater than the TLV or PEL.

Use cartridge filter for alkaline mist.

Eye Protection:

Chemical safety goggles recommended.

Face shield recommended.

Protective Clothing or Equipment:

Chemically resistant coveralls, hat, and shoes or boots.

Neoprene gloves.

Natural rubber gloves.

Ventilation:

Local exhaust recommended.

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SECTION IX - Physical and Chemical Properties

Form Liquid  
Color Clear  
Odor None  
Solubility Complete  
pH Value 9.8  
Boiling Point 214.0øF  
Vapor Pressure (mmHg) Not Available  
Melting Point < 21.0øF  
Evaporation Rate Unavailable

% Volatile By Weight Not Applicable  
Specific Gravity: 1.221

SECTION X - Stability and Reactivity

Stability:

Stable under normal conditions. See Incompatibility Information.

Incompatibility (Materials to Avoid):

Oxidizing agents, acids, acid salts.

Hazardous Decomposition Products:

Toxic oxides of sulfur.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Conditions to Avoid:

NA

SECTION XI - Toxicological Information

Route	Species	Exposure and Dose
SODIUM SULFITE		
Oral	Mouse	LD50 820.0 mg/kg

SECTION XII - Ecological Information

Ecological information on this product is not available.

SECTION XIII - Disposal Considerations

For waste disposal of spent, spilled, or contaminated product contact a permitted TSDF (Treatment, Storage and Disposal Facility). Dispose of in accordance with all applicable Local, State, and Federal regulations.

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SECTION XIV - Transport Information

Please contact the Regulatory Affairs Department at (203) 799-4917 for the most current shipping information.

SECTION XV - Regulatory Information

None

SECTION XVI - Other Information

This product does not contain any chemicals subject to the reporting requirements of SARA, TITLE III, Section 313 (40CFR372) or known to the State of California to cause cancer or birth defects (to comply with California Statute [Section 25249.6]).

Disclaimer:

This Material Safety Data Sheet may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Enthone-OMI Inc. furnishes the data contained herein in good faith at customer's request without liability or legal responsibility for same whatsoever, and no warranty or guarantee, express or implied, is made with respect to such data; nor does Enthone-OMI Inc. grant permission, recommendation, or inducement to infringe any patent whether owned by Enthone-OMI Inc. or others. The data is offered solely for your information and consideration. Since conditions of use are beyond Enthone-OMI's control, user assumes all responsibility and risk.

CAS=Chemical Abstract Service

IARC=International Agency for Research on Cancer

NA=Not Applicable

NI=No Relevant Information Available

NTP=National Toxicology Program

PEL=Permissible Exposure Limit

SDT=Standard Draize Test

STEL=Short Term Exposure Limit

TLV=ACGIH Threshold Limit Value

TLV-C=ACGIH Threshold Limit Value, Ceiling

TRADE SECRET=Claimed As Allowed Under 29 CFR 1910.1200

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