

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
MSDS Date 09/17/98
Spds Date 01/15/92
Page Number 1 of 6

SECTION I - Product and Company Information

Product Name BDT 200 MAKE-UP
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

BDT is a registered trademark of Enthone-OMI Inc.

SECTION II - Ingredient and Hazard Information

Ingredient Name	CAS Number	Percent	TSCA
WATER	7732-18-5	<100.0	Y
SULFITE COMPOUND	TRADE SECRET	< 5.0	Y
SODIUM GOLD SULFITE	19153-98-1	< 1.0	Y
ARSENIC, SOLUBLE COMPOUND as As	7440-38-2	< 0.1	Y

All ingredients comply with applicable rules or orders under TSCA.

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

Carcinogen:

This product contains less than 0.1% arsenic. Arsenic and inorganic arsenic compounds are confirmed human carcinogens. Chronic exposures have produced skin cancers, certain types of lung cancer, and liver cancer. Exposure has also been associated with lymphomas, leukemia, as well as paranasal sinus and bladder cancers.

Reference:

Arsenic: IARC Group 1, NTP 1, OSHA-X, NIOSH-X

Enthone-OMI Inc.
a subsidiary of ASARCO
www.enthone-omi.com

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
MSDS Date 09/17/98
Speds Date 01/15/92
Page Number 2 of 6

SECTION III - Hazards Identification

Inhalation:

Mist or vapor may irritate respiratory tract and may cause allergic reaction in persons sensitive to sulfites.

Skin Contact:

Can cause irritation.

Eye Contact:

Can cause severe irritation, damage to eyes.

Ingestion:

Can cause irritation to mouth, throat, esophagus, and stomach.

May cause diarrhea.

Ingestion of large quantities may be toxic or fatal.

Chronic:

May result in allergic reaction in persons sensitive to sulfites.

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 Not Applicable

Special Fire-Fighting Procedures:

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

Enthone-OMI Inc.

a subsidiary of ASARCO
www.enthone-omi.com

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
MSDS Date 09/17/98
Speds Date 01/15/92
Page Number 3 of 6

of combustion exists.

Unusual Fire-Fighting Hazards:

Thermal decomposition may yield toxic sulfur oxides.

Extinguishing Media:

This product is not combustible.

As appropriate for surrounding fire.

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 up into plastic-lined steel containers and cover. Send to refinery for recovery of precious metal.

SECTION VII - Handling and Storage

Store in a cool, dry place. Keep away from acids. 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
SULFITE COMPOUND	NA	NA	NA	NA	NA
SODIUM GOLD SULFITE	NA	NA	NA	NA	NA
ARSENIC, SOLUBLE COMPOUND as As	0.01 mg/M3	NA	NA	NA	0.01 mg/M3

Exposure limits for elemental arsenic and inorganic arsenic compounds (except arsine) are as As. (See 29 CFR 1910.1018 for more information.)

Respirator:

Enthone-OMI Inc.

_____ a subsidiary of ASARCO

www.enthone-omi.com

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
MSDS Date 09/17/98
Speds Date 01/15/92
Page Number 4 of 6

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

Use cartridge filter for alkaline mist.

Eye Protection:

Safety glasses recommended.

Chemical safety goggles recommended.

Protective Clothing or Equipment:

Wear full protective work clothing.

Neoprene gloves.

Butyl rubber gloves

Ventilation:

Local exhaust recommended.

SECTION IX - Physical and Chemical Properties

Form	Liquid
Color	Colorless
Odor	None
Solubility	Complete
pH Value	9.5
Boiling Point	> 200.0°F
Vapor Pressure (mmHg)	Not Available
Melting Point	Not Applicable
Evaporation Rate	Unavailable
% Volatile By Weight	Not Applicable
Specific Gravity:	1.07

SECTION X - Stability and Reactivity

Stability:

Stable under normal conditions. See Incompatibility Information.

Incompatibility (Materials to Avoid):

Acids, aluminum, zinc

Hazardous Decomposition Products:

In a fire: toxic sulfur oxides.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Conditions to Avoid:

NA

SECTION XI - Toxicological Information

Route	Species	Exposure and Dose
ARSENIC, SOLUBLE COMPOUND as As		

Enthone-OMI Inc.

a subsidiary of ASARCO

www.enthone-omi.com

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
MSDS Date 09/17/98
Spds Date 01/15/92
Page Number 5 of 6

Oral Rat, adult LD50 10.0 mg/kg

SECTION XII - Ecological Information

Ecological information on this product is not available.

SECTION XIII - Disposal Considerations

Send to a refinery for precious metal reclaim in accordance with Local, State, and Federal regulations.

SECTION XIV - Transport Information

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

SECTION XV - Regulatory Information

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
ARSENIC, SOLUBLE COMPOUND as As	7440-38-2	< 0.1

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
ARSENIC, SOLUBLE COMPOUND as As	7440-38-2	< 0.1

SECTION XVI - Other Information

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.
a subsidiary of ASARCO
www.enthone-omi.com

MATERIAL SAFETY DATA SHEET

MSDS Number AG90 V
 MSDS Date 09/17/98
 Spade Date 01/15/92
 Page Number 6 of 6

 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

 Enthone-OMI Inc.
 _____ a subsidiary of ASARCO
 www.enthone-omi.com