

EMS CATALOG NO: 11400
EMS PRODUCT: BDMA
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

PRODUCT NAME: Benzyldimethylamine, BDMA

TRADE NAMES/SYNONYMS: BDMA, Sumine 2015

CHEMICAL NAME AND
SYNONYMS: Benzyldimethylamine, Dimethy Benzylamine

CHEMICAL FAMILY: Aralkyl Amine

CAS NUMBER: 103-83-3

PRODUCT CODE: 2015

PIN #: 2619

WHMIS CLASS: B3,D1B,E
COMPONENTS/WEIGHT %: Benzyl Dimethylamine / 100%

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colorless to light yellow liquid with an amine odor. Corrosive. Combustible liquid. A possible skin sensitizer. Toxic by inhalation. Vapors will cause irritation to the respiratory tract and mucous membranes.

BREATHING: Breathing vapors or mist may cause irritation to nose, throat and lungs.

SKIN CONTACT: Corrosive, contact with skin may result in strong irritation and burns.

EYE CONTACT: Severely irritating to the eyes.

SWALLOWING: Substance may be harmful if swallowed.

LONG TERM HEALTH EFFECTS: Not known.

CONDITIONS AGGRAVATED BY EXPOSURE: Not known.

FIRST AID MEASURES

BREATHING: Remove to fresh air. If not breathing give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

SKIN: Immediately flush with water for at least 15 minutes. Use soap if available. Remove contaminated clothing, including shoes after flushing has begun. Get prompt medical attention. Thoroughly wash contaminated clothing and shoes or discard in a manner which limits further exposures.

EYE: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get medical attention if irritation or other symptoms occur.

SWALLOWING: Dilute with milk or water. Get immediate medical

attention. Never give anything by mouth to an unconscious person.

FIRE FIGHTING MEASURES

FLASH POINT: 130.0oF / 54.44oC
METHOD: N/A

FLAMMABLE LIMITS: LEL: N/A
UEL: N/A

AUTO IGNITION TEMP: N/A

EXTINGUISHING MEDIA: CO2, dry chemical, alcohol foam, water spray.

FIRE FIGHTING PROCEDURES:

Evacuate area and fight fire from safe distance. Wear self contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent and full protective gear.

SPECIAL FIRE FIGHTING PROCEDURES:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Emits toxic fumes under fire conditions. Vapors may travel a considerable distance flashback to the source.

SENSITIVITY TO EXPLOSION:

Explosion by mechanical impact - None.
Explosion by static discharge - May occur.

CONDITIONS OF FLAMMABILITY:

Avoid temperatures above flash point. May burn in a fire.

ACCIDENTAL RELEASE MEASURES

GENERAL: This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent skin and eye contact. (See Exposure Controls/Personal Protection)

SMALL SPILL: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

LARGE SPILL:

Shut off leak, if safe to do so. Clean up spills immediately, observing precautions in Protective Equipment section. Contain spilled liquid with sand or earth. Retain all contaminated water for removal and treatment.

HANDLING AND STORAGE

HANDLING:

Use with adequate ventilation. Wash thoroughly after handling. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid contact with eyes and skin. Avoid breathing vapors.

STORAGE:

Keep away from ignition sources. Store in accordance with OSHA regulations and NFPA guidelines. Keep container closed when not in use.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LEVELS:

COMPONENT	OSHA			ACGIH		
	TWA	STEL	CEL	TWA	STEL	CEL
None	Not Available					

ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other

engineering controls to control sources of dust, mist or vapor.

RESPIRATORY PROTECTION:

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use a positive pressure air supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respiratory protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

EYE/FACE PROTECTION:

Wear splash-proof chemical goggles and a faceshield.

SKIN PROTECTION:

Wear impervious gloves and chemical protective clothing, including impervious sleevelets, overalls, aprons or boots as needed to prevent contact with skin.

PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE:	Colorless/light yellow liquid.	
ODOR:	Amine	
INITIAL BOILING POINT:	349.0oF	176.1 oC
FINAL BOILING POINT:	349.0oF	176.1oC
SPECIFIC GRAVITY:	.89 @ 77oF	(Rel to H2O):
VAPOR DENSITY	N/A	(Rel to Air):
VAPOR PRESSURE	N/A	(mm Hg):
pH:	N/A	
SOLUBILITY IN WATER:	Slightly soluble.	
FREEZING/MELTING POINT:	N/A	
OCTANOL/H2O PART COEFF:	N/A	
ODOR THRESHOLD:	N/A	
FLASH POINT:	130.0oF	54.44oC
AUTO IGNITION TEMP:	N/A	
EXPLOSIVE PROPERTIES:	None	
OXIDIZING PROPERTIES:	None	
VISCOSITY:	N/A	
EVAPORATION RATE:	N/A	(Rel to Butyl Acetate)

STABILITY AND REACTIVITY

STABLE: Yes.

STRONG OXIDIZER: No.

HAZARDOUS POLYMERIZATION: Not prone to hazardous polymerization.

INCOMPATIBILITY: Strong oxidizing agents, acids, acid anhydrides, acid chlorides.

CONDITIONS TO AVOID: Exposure to oxidizing agents and acids.
Prolonged exposure to heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides.

TOXICOLOGICAL INFORMATION

TOXICITY DATA: Benzyldimethylamine CAS# 103-83-3

ORAL LD50 rat: 650 mg/kg
DERMAL LD50 (rabbit): 1660 mg/kg
INHALATION LC50, rat; 373 ppm/4 hr
SKIN IRRITANCY, rabbit; 500 mg/4 hr-severe with local necrosis
EYE IRRITANCY, rabbit; 5 mg Severe

ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Not available.

CHEMICAL FATE: Not available.

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with all Federal, State and Local regulations.

CONTAINER DISPOSAL: Dispose of in accordance with all Federal,
State and Local regulations.

TRANSPORT INFORMATION

DOT SHIPPING NAME: Benzyldimethylamine
HAZARD CLASS 8
PACKING GROUP: II
UN/NA NO: 2619
DOT LABELS: Corrosive
SUBSIDIARY LABEL: None
DOT PLACARDS: 8, Corrosive

IMO SHIPPING NAME: Benzyldimethylamine
HAZARD CLASS: 8
PACKING GROUP: II
UN NO: 2619
IMO LABELS: Corrosive
SUBSIDIARY LABEL: None

IATA SHIPPING NAME: Benzyldimethylamine
HAZARD CLASS: 8
PACKING GROUP: II
UN NO: 2619
IATA LABELS: Corrosive
SUBSIDIARY LABEL: None

REGULATORY INFORMATION

SARA 311/312 CHRONIC HEALTH HAZARD: No
SARA 311/312 ACUTE HEALTH HAZARD: Yes
SARA 311/312 FIRE HAZARD: Yes
SARA 311/312 SUDDEN PRESSURE: No
SARA 311/312 REACTIVITY HAZARD: No

Section 302 Extremely Hazardous - Ingredients: None
CERCLA Hazardous Substances - Ingredients: None
Section 313 Toxic Chemicals - Ingredients: None
NJ environmental Hazard Substance List - Ingredients: None
California Proposition 65 Ingredients: None

Reported in TSCA inventory: Yes.

OTHER INFORMATION

HMIS HAZARD RATINGS:

HEALTH: 3
FIRE: 2
REACTIVITY: 0

NFPA HAZARD RATINGS:

HEALTH: 3
FIRE: 2
REACTIVITY: 0
SPECIFIC HAZARD: None