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Material Safety Data Sheet**BDMA (Benzyldimethylamine) [R1062A]****Section 1: Company Identification and Product**

Product Name: Benzyldimethylamine [50g]

Synonyms: BDMA, N,N-Dimethylbenzylamine

CAS Number: 103-83-3

Supplier: **Agar Scientific Ltd**

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Product Use: Accelerator used in epoxy resins for microscopy

Date of MSDS preparation: 27th March 2009

Section 2: Hazards Identification

EC symbols and classification:



Corrosive

Risk Phrases:

R10	Flammable
R20/21/22	Harmful by inhalation,, in contact with skin and if swallowed
R34	Corrosive
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Section 3: Composition / Information on Ingredients

Product	CAS Number	EC Number	%
Benzyldimethylamine	108-83-3	203-149-1	>98

Section 4: First Aid Measures

Inhalation: Remove casualty to fresh air, ensuring ones own safety whilst doing so. If not breathing give artificial respiration. If breathing is difficult give oxygen if available. Seek medical advice.

Skin contact: In case of skin contact, flood the affected area with large quantities of running water for at least 15 minutes. Seek medical advice.

Eye contact: In case of contact with eyes, wash out with running water for at least 15 minutes, holding the eyelids open with gloved fingers. Seek medical advice.

Ingestion: If the chemical has been confined to the mouth, wash out with water, ensuring that the mouthwash is not swallowed. If the chemical has been swallowed, give plenty of water to drink. Seek medical attention.

Section 5: Fire Fighting Measures

Extinguishing Media: Suitable media are carbon dioxide, dry chemical powder or appropriate foam. For large fires, fire-fighter may use large quantities of water applied as a mist or spray.

Exposure hazards: Under fire conditions emits toxic fumes of carbon monoxide, carbon dioxide and nitrogen oxides. Explosion hazard. May travel considerable distances to ignition source and flash back.

Protection for fire fighters: Wear SCBA and protective clothing to prevent skin contact.

Section 6: Accidental Release Measures

Personal precautions: Evacuate the area and turn off sources of ignition. Ensure maximum ventilation. Wear protective clothing and gloves. If spillage is substantial use SCBA.

Environmental precautions: Avoid material entering drains or water courses.

Clean-up procedures: Cover with an absorbing material such as dry-lime, sand, or vermiculite. Clear up and place in suitable containers. Keep tightly closed and dispose of as chemical waste.

Section 7: Handling and Storage

Handling: Wear approved respirator, chemical resistant gloves, safety goggles and protective clothing. Where possible use in a chemical fume hood. Do not breathe vapour. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Storage: Keep containers tightly closed in a cool, dry area. Keep away from heat and open flame.

Section 8: Exposure Controls / Personal Protection

Engineering measures: Use in a chemical fume hood. Have safety shower and eyewash to hand.

Respiratory protection: Where risk assessment suggests that a respirator is appropriate ensure that these are approved to government standards such as NIOSH (US) or CEN (EU).

Hand protection: Use compatible chemical resistant gloves.

Eye protection: Wear chemical safety goggles or face shield.

Section 9: Physical and Chemical Properties

Molecular Formula	C ₉ H ₁₃ N
Molecular Weight	135.21
Physical State / Appearance	Clear colourless to pale yellow liquid
Melting Point [°C]	-75
Boiling Point [°C]	178 - 181
Flash Point [°C]	53 [closed cup]
Vapour Pressure	< 1 mm Hg
SG / Density	0.899 g/cm ³
Solubility	Soluble in water

Section 10: Stability and Reactivity

Stability: Stable under normal storage conditions.

Materials to avoid: Strong oxidising agents and acids

Hazardous decomposition products: Hazardous polymerisation will not occur. Under fire conditions forms carbon dioxide, carbon monoxide and nitrogen oxides.

Section 11: Toxicological Information

RTECS: DP4500000

Acute Data:

LD ₅₀	oral rat	265 mg/kg
LD ₅₀	skin rabbit	1660 mg/kg
LCLo	inhalation mouse	1200 mg/m ³ /2H

Irritation Data:

Skin rabbit	500mg 4H	Severe irritation effect
Eyes rabbit	5mg	Severe irritation effect

Sensitisation: May cause allergic reaction to respiratory system or skin.

Potential Health Effects: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi. Other symptoms may include itching; dermatitis; conjunctivitis; corneal opacity and difficulty in breathing.

Target organ: Central nervous system.

Section 12: Ecological Information

LC₅₀ Fish - Pimephales promelas [Fathead minnow] 35.8 - 39.9 mg/l 96H

LC₅₀ Fish - Leuciscus idus 10 - 22 mg/l 96H

Harmful to fish and aquatic organisms

Section 13: Disposal Considerations

Waste disposal: Dispose of in accordance with local and national guidelines. If approved facilities are available the use of a chemical incinerator equipped with afterburners and scrubbers may be appropriate.

Section 14: Transport Information

Shipment method	Shipping Name	UN No.	Class	Packing Group	Other Data
ADR / RID	Benzyl dimethylamine	2619	8	II	Subrisk 3
IMDG / IMO	Benzyl dimethylamine	2619	8	II	Subrisk 3
IATA / ICAO	Benzyl dimethylamine	2619	8	II	Subrisk 3

Section 15: Regulatory Information

EC Classification and Hazard Symbol: Corrosive

Risk phrases:

R10 Flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R34 Causes burns

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 Wear suitable protective clothing

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S61 Avoid release to the environment Refer to special instructions / safety data sheet

Section 16: Other Information**Possible abbreviations used in this document:**

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

The information and recommendations contained in this data sheet should assist the user with the safe handling of this material when properly applied. AGAR SCIENTIFIC LIMITED cannot accept responsibility for the consequences of any misuse of this material.