

Safety Data Sheet

Product No. 18241 BDMA, Benzyldimethylamine

Issue Date (07-05-15)

Review Date (09-11-15)

Section 1: Product and Company Identification

Product Name: BDMA, Benzyldimethylamine

Synonym: N,N-Dimethylbenzylamine

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrek Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS Pictograms



GHS02 GHS05 GHS07

GHS Categories

GHS02 – Flammable

Flam. Liq. 3

H226: Flammable liquid and vapor.

GHS05 – Corrosion

Skin Corr. 1B

H314: Causes severe skin burns and eye damage.

GHS07 - Irritant

Acute Tox. 4

H302: Harmful if swallowed.

Acute Tox. 4

H312: Harmful in contact with skin.

Acute Tox. 4

H332: Harmful if inhaled.

Additional

Aqua. Chron. 3

H412: Harmful to aquatic life with lasting effects.

2.2 Label elements

Hazard Pictograms



GHS02 GHS05 GHS07

Signal Word: Danger

Hazard-determining components of labeling:

Benzyltrimethylammonium chloride

Hazard statements

H226 Flammable liquid and vapor.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Health Effects:

NFPA Hazard Rating: Health: 3; Fire: 2; Reactivity: 0
HMIS® Hazard Rating: Health: 3; Fire: 2; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:

PBT: NA
vPvB: NA

Emergency overview

Appearance: Light yellow liquid
Immediate effects: Causes burns to eyes, skin.

Potential health effects

Primary Routes of entry: Ingestion, inhalation, eye and skin contact.

Signs and Symptoms of Overexposure: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Eyes: Causes severe eye damage.

Skin: Causes severe skin burns.

Ingestion: Harmful if swallowed.

Inhalation: Harmful if inhaled.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	NTP	IARC	OSHA regulated
Benzyl dimethylamine (103-83-3) EC number: 203-149-1 Index number: 612-074-00-7	≤100	ND	ND	No	No	No

Section 4: First Aid Measures

If accidental overexposure is suspected

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Eye(s) Contact Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact Immediately wash with water and soap and rinse thoroughly.

Inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

Ingestion Immediately call a doctor. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Note to physician

Treatment: No further relevant information available.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 54 °C (129 °F)

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: CO₂, sand, extinguishing powder. **Do not use water.**

Special Fire Fighting Procedures: Mouth respiratory protective device. For safety reasons **unsuitable** extinguishing agents: Water with full jet.

Unusual Fire and Explosion Hazards: No further relevant information available

Hazardous combustion products: Oxides of carbon and nitrogen.

DOT Class: Corrosive, Flammable.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Personal precautions, protective equipment, and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

Waste Disposal Methods:

Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Handling: Ensure good ventilation/exhaustion at the workplace. Wear gloves and safety goggles. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Storage: Keep receptacle tightly sealed. Protect from heat and direct sunlight.

Storage temperature: Room temperature.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Components with limit values that require monitoring at the workplace: Not required.

Engineering Controls

Ventilation required: Use in chemical fume hood. Ensure good ventilation/exhaustion at the workplace.

Additional equipment: Eyewash station.

Personal Protection Equipment

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protective gloves: Wear protective gloves.
Skin protection: Wear gloves and protective clothing.
Eye protection: Tightly sealed goggles.

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Light yellow liquid
Odor (threshold): Amine-like (ND)
Specific Gravity (H₂O=1): 0.915 g/cm³ (7.636 lbs/gal)
Vapor Pressure (mm Hg): 2.8 hPa @ 20°C
Vapor Density (air=1): ND
Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1):
Boiling Point: 176°C
Freezing point / melting point: Melting point: -75°C
pH: ND
Solubility in Water: Soluble, difficult to mix.
Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.
Conditions to Avoid: Heat, flames and sparks.
Materials to Avoid (Incompatibility): Strong oxidizing agents.
Hazardous Decomposition Products: No dangerous decomposition products known.
Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity:

LD/LC50 values that are relevant for classification: 103-83-3 Benzyldimethylamine

Oral LD50 265 mg/kg (rat)

Dermal LD50 1660 mg/kg (rabbit)

Inhalation LC50/4 h 2.06 mg/l (rat)

Human experience:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Strong caustic effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information:

Toxicity to fish: LC50 - *Leuciscus idus* (Golden orfe) - 10.0 - 22.0 mg/l - 96.0 h

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecotoxicological effects:

Remark: Harmful to fish.

Additional ecological information:

General notes: Water hazard class 2 (Assessment by list): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Benzyldimethylamine

Hazard Class: 8

Packaging group: II

UN Number: UN2619

IATA: Proper shipping name: Benzyldimethylamine

Hazard Class: 8

Packing group: II

UN Number: UN2619

Marine Pollutant: No

Canadian TDG: Benzyldimethylamine

Section 15: Regulatory Information

United States Federal Regulations

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA: Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

SARA Title III: Section 313 (Specific toxic chemical listings): Substance is not listed.

RCRA: ND

TSCA: Substance is listed.

CERCLA: ND

State Regulations

California Proposition 65: Substance is not listed.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

Label Information: Flammable, Corrosive, Irritant.

European Risk and Safety 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.

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.

European symbols needed: ND

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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