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
   Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
   Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day
CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours 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:
Benzyldimethylamine

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):

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>OSHA PEL mg/m³</th>
<th>ACGIH TLV mg/m³</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyldimethylamine (103-83-3)</td>
<td>≤100</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

EC number: 203-149-1
Index number: 612-074-00-7

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:**

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

**Storage temperature:** Room temperature.

**Storage Pressure:** NA

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**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)

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**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

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**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

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**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
Packaging group: II
UN Number: UN2619
Marine Pollutant: No
Canadian TDG: Benzyldimethylamine

Section 15: Regulatory Information
United States Federal Regulations
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.

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**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

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**Disclaimer**
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

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