Section 1: Product and Company Identification
Product Name: NMA (Methyl Nadic Anhydride)
Synonym: NMA, (Methyl-5-Norbornene-2, 3-Dicarboxylic Anhydride)
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

GHS05  GHS07  GHS08

GHS Categories:
GHS07 – Irritant
   Skin Irrit. 2  H315: Causes skin irritation.
   STOT SE 3  H335: May cause respiratory irritation.
GHS05 – Corrosive
   Skin Corr. 1C  H314: Causes severe burns and eye damage.
GHS08 – Health Hazard
   Acute Tox. 4  H302: Harmful if swallowed.
   Resp. Sens. 1  H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Hazard Pictograms

GHS08  GHS05  GHS07

Signal Word: Danger

Hazard statements:
H302  Harmful if swallowed.
H314  Causes severe burns and eye damage.
H315  Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Precautionary statements:
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P285 In case of inadequate ventilation wear respiratory protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
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: 2; Fire: 1; Reactivity: 0
HMIS® Hazard Rating: Health: *2; Fire: 1; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:
PBT: NA
vPvB: NA

Emergency overview

Potential health effects
Primary Routes of entry: Ingestion, Skin and eye contact, Inhalation of mist or vapors.
Signs and Symptoms of Overexposure: ND
Eyes: Causes serious eye irritation.
Skin: Causes severe skin burns or irritation.
Ingestion: Harmful if swallowed.
Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Chronic Exposure: ND
Chemical Listed as Carcinogen or Potential Carcinogen: None listed.
See Toxicological Information (Section 11)

Potential environmental effects
See Ecological Information (Section 12)
Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s)</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>(NMA) Methyl-5-Norbornene-2,3-Dicarboxylic Anhydride (25134-21-8) EC-No.: 246-644-8</td>
<td>≤ 100</td>
<td>ND</td>
<td>ND</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures
If accidental overexposure is suspected

General information: 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. If symptoms persist, consult a doctor.

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

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

Ingestion: If swallowed, immediately call a doctor.

Note to physician
Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: 135 °C
Flammable Limits: ND
Auto-ignition point: ND

Fire Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Fire Fighting Procedures: ND

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: Oxides of carbon

DOT Class: Corrosive.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Do not allow to enter sewers/surface or ground water.

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: Ensure good ventilation/exhaustion at the workplace. Keep container tightly closed.

Storage temperature: Store in a cool place.

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Use fume hood to keep concentration below exposure limit value.

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.
Skin protection: Wear protective gloves and clothing.
Eye protection: Wear tightly sealed goggles.
Additional clothing and/or equipment: Eye wash station.

**Exposure Guidelines**
See Composition/Information on Ingredients (Section 3)

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**Section 9 Physical and Chemical Properties**
Appearance and Physical State: Clear, pale, yellow viscous liquid.
Odor (threshold): Slight odor
Specific Gravity (H₂O=1): 1.23 g/cm³
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): ND
Boiling Point: ND
Freezing point / melting point: ND
pH: ND
Solubility in Water: ND
Molecular Weight: ND

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**Section 10: Stability and Reactivity**
Stability: Stable.
Reactivity: No dangerous reactions known.
Conditions to Avoid: ND
Materials to Avoid (Incompatibility): ND
Hazardous Decomposition Products: No dangerous decomposition products known.
Hazardous Polymerization: No dangerous polymerization known.

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**Section 11: Toxicological Information**
Results of component toxicity test performed:
Acute toxicity:
LD₅₀ Oral (Rat) - 914 mg/kg
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
LD₅₀ Dermal (Rat) - 4,290 mg/kg

Human experience:
Skin corrosion/irritation: ND
Serious eye damage/eye irritation: ND
Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.
Also see Section 3.

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**Section 12: Ecological Information**
Ecological Information:
Aquatic toxicity: ND
Persistence and degradability: ND
Behavior in environmental systems:
  Bioaccumulative potential: ND
  Mobility in soil: ND
Additional ecological information:
  General notes: Water hazard class 1 (Self-assessment): Slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
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: Corrosive liquids, n.o.s. (Methyl-5-Norbornene-2,3-Dicarboxylic Anhydride)
  Hazard Class: 8
  Packaging group: III
  UN Number: UN1760
**IATA:** Proper shipping name: Corrosive liquids, n.o.s. (Methyl-5-Norbornene-2,3-Dicarboxylic Anhydride)
  Hazard Class: 8
  Packing group: III
  UN Number: UN1760
  Marine Pollutant: No
Canadian TDG: Corrosive liquids, n.o.s. (Methyl-5-Norbornene-2,3-Dicarboxylic Anhydride)

**Section 15: Regulatory Information**
**United States Federal Regulations**
SARA: Section 355 (extremely hazardous substances): Substance is not listed.
SARA Title III: Section 313 (Specific toxic chemical listings): Substance is not listed.
RCRA: ND
TSCA: Substance is listed.
CERCLA: Not listed.

**State Regulations**
California Proposition 65: Substance is not listed.
Carcinogenic categories:
  EPA (Environmental Protection Agency) Substance is not listed.
  TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
  NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
  OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

**International Regulations**
Product related hazard information: The product has been classified and marked in accordance with directives on hazardous materials.
Canada WHMIS: ND
Europe EINECS Numbers: 246-644-8
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
Section 16: Other Information
Label Information: Harmful, Corrosive.
European Risk and Safety Phrases:
  Risk phrases: Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.
  Safety phrases: Keep out of the reach of children. Wear eye/face protection.
European symbols needed:

 Harmful and Irritant
Canadian WHMIS Symbols: ND

Abbreviations used in this document
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

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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