Section 1: Product and Company Identification

Product Name: Sodium Cacodylate Trihydrate
Synonym: Sodium Dimethylarsinate Trihydrate, Cacodylate Acid

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

Section 2: 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>Sodium Dimethylarsinate Trihydrate (6131-99-3)</td>
<td>100</td>
<td>0.5</td>
<td>NE</td>
<td>NE</td>
<td>Group 1</td>
<td>NIF</td>
</tr>
</tbody>
</table>

Sodium Cacodylate, Cas No is (124-65-2) anhydrous form.

Section 3: Hazard Identification

Emergency overview
Appearance: Fine, white crystals.
Immediate effects: Extremely hazardous in case of ingestion or inhalation. Severe over-exposure can result in death. Cancer hazard
Target organs: Kidney, Liver, Heart, Brain, Bone marrow, Nerves

Potential health effects
Primary Routes of entry: Ingestion, inhalation, skin contact and eye contact.
Signs and Symptoms of Overexposure: Burning of throat, colicky stomach pains, garlicky odor of breath and or skin.
Eyes: Hazardous in case of eye contact (irritant).
Skin: Hazardous in case of skin contact (irritant, permeator).
Ingestion: Extremely hazardous in case of ingestion.
Inhalation: Extremely hazardous in case of inhalation.
Chronic Exposure: May cause cancer. Repeated or prolonged exposure to the substance can produce target organ damage.
Chemical Listed As Carcinogen Or Potential Carcinogen: IARC: Group 1, NTP: Not Listed, OSHA: Listed Arsenic, organic compounds (7440-38-2)
See Toxicological Information (Section 11)

Potential environmental effects
See Ecological Information (Section 12)

Section 4: First Aid Measures
If accidental overexposure is suspected
Eye(s) Contact: Wash with copious amounts of water for 15 minutes.
Skin Contact: Wash with copious amounts of water for 15 minutes.
Inhalation: Move the victim to a well-ventilated area and rest. If breathing is difficult administer oxygen. If not breathing perform mouth to mouth resuscitation. Seek immediate medical attention.
Ingestion: If swallowed, call a physician immediately and refer for medical attention, where possible, without delay. Where Medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: If conscious, give water to drink. Induce vomiting, only if conscious.

Note to physician
Treatment: Treat symptomatically.
Medical Conditions generally Aggravated by Exposure: Central nervous system disorders, Gastrointestinal tract, Kidney disorders, Liver disorders, Skin disorders.

Section 5: Fire Fighting Measures
Flash Point: Non-flammable. May be combustible at high temperatures
Flammable Limits: LEL: ND; UEL: ND
Auto-ignition point: ND
Fire Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special Fire Fighting Procedures: NIF
Unusual Fire and Explosion Hazards: NIF
Hazardous combustion products: Carbon oxides, Sodium oxides, Arsenic oxides.
DOT Class: Toxic

Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled: If a large leak occurs, enclose leaking container in a larger drum (or transfer contents to a new drum) and return to manufacturer. If a small spill, absorb on vermiculite diatomaceous earth. Use gloves.
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: Store in locked area. Use precautions when handling poisonous chemicals. Use under a chemical fume hood
Storage temperature: Keep containers tightly closed in a dry, cool and well-ventilated place.
Storage Pressure: NA
Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Use under a chemical fume hood. Ensure adequate ventilation to keep airborne levels below recommended exposure limits.

Personal Protection Equipment
Respiratory protection: Use under a chemical fume hood or use process enclosures or other engineering controls to keep below exposure limits.
Protective gloves: Neoprene.
Skin protection: Wear appropriate protective gloves and clothing to prevent skin exposure.
Eye protection: Wear Chemical Safety Goggles or face shield.
Additional clothing and/or equipment: Rubber apron.

Exposure Guidelines
See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Fine white crystal.
Odor (threshold): Slight odor
Specific Gravity (H₂O=1): 0.58
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): NA
Percent Volatile by volume: 25.2 at 120°C
Evaporation Rate (butyl acetate=1): Negligible
Boiling Point: Decomposes
Freezing point / melting point: ~60°C
pH: ND
Solubility in Water: 44%
Molecular Weight: 214

Section 10: Stability and Reactivity
Stability: This product is stable under ordinary conditions of use and storage.
Conditions to Avoid: Strong reducing agents such as aluminum, zinc, common metals (corrosive) sodium borohydride, sulfur dioxide. Avoid moisture.
Materials to Avoid (Incompatibility): Strong oxidizing agents, strong acids and strong bases.
Hazardous Decomposition Products: Carbon oxides, Sodium oxides, Arsenic oxides
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed: Oral (Acute) LD50: 2600 mg/kg for Rats.
Oral (Acute) LD50: 4 mg/kg for Mouse.
Human experience: ND
This product does contain compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.
Section 12: Ecological Information
Ecological Information: Toxic to aquatic life.
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: Consider recycle. Contact a licensed professional waste disposal service to dispose of this material
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: Sodium Cacodylate
Hazard Class: 6.1
Packaging group: II
UN Number: UN1688
IATA: Proper shipping name: Sodium Cacodylate
Hazard Class: 6.1
Packaging group: II
UN Number: UN1688
Marine Pollutant: Not listed
Canadian TDG: Sodium Cacodylate

Section 15: Regulatory Information
United States Federal Regulations
CWA: Yes
SARA Title III: 302/304 Sodium Cacodylate listed
RCRA: ND
TSCL: Listed
CERCLA: Not listed

State Regulations
California Proposition 65: Cacodylic Acid (75-60-5) is known by the state of California to cause cancer.

International Regulations
Canada WHMIS: Hazard Class, D1B Toxic Materials, D2A, Very Toxic Material
Europe EINECS Numbers: 204-708-2

Section 16: Other Information
Label Information: Keep out of reach of children.
European Risk and Safety Phrases: Toxic
European symbols needed: Toxic
Canadian WHMIS Symbols: Toxic
HMIS® Hazard Rating: Health: 2; Fire: 1; Reactivity: 0
NFPA Hazard Rating: Health: 2; Fire: 1; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

**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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