Section 1: Product and Company Identification

Product Name: Nonenyl Succinic Anhydride Modified (NSA)
Synonym: NSA (Nonenyl Succinic Anhydride Modified)
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

Classification according to Regulation (EC) No 1272/2008

GHS Pictograms

![GHS07]

GHS07

GHS Categories

Acute Tox. 4  H302: Harmful if swallowed.
Acute Tox. 4  H312: Harmful in contact with skin.
Acute Tox. 4  H332: Harmful if inhaled.
Skin Irrit. 2  H315: Causes skin irritation.
Eye Irrit. 2  H319: Causes serious eye irritation.

2.2 Label Elements

![GHS07]

GHS07

Signal Word: WARNING

Hazard statements

H302+H312+H332  Harmful if swallowed, in contact with skin or if inhaled.
H315  Causes skin irritation.
H319  Causes serious eye irritation.

Precautionary statements

P284  Wear respiratory protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.
Classification system:
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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

Emergency overview
Appearance: Yellow liquid
Immediate effects: Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.

Potential health effects
Primary Routes of entry: Ingestion, inhalation, and skin and eye contact.
Signs and Symptoms of Overexposure: ND
Eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin: Immediately wash with water and soap and rinse thoroughly
Ingestion: Call for a doctor immediately.
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.
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: No
See Toxicological Information (Section11)

Potential environmental effects
See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Component(s) (chemical and common name(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>Nonenyl Succinic Anhydride</td>
<td>ND</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
Section 4: First Aid Measures
If accidental overexposure is suspected
Eye(s) Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin Contact: Generally the product does not irritate the skin.
Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Ingestion: Call for a doctor immediately.

Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures
Flash Point: 149 °C
Flammable Limits: Not flammable.
Auto-ignition point: Product is not self-igniting.
Fire Extinguishing Media: Use firefighting measures that suit the environment.
Special Fire Fighting Procedures: Mouth respiratory protective device.
Unusual Fire and Explosion Hazards: No further relevant information available.
Hazardous combustion products: ND
DOT Class: None

Section 6: Accidental Release Measures
Steps to be taken in Case Material is Released or Spilled
Personal precautions, protective equipment and emergency procedures: Not required.
Environmental precautions: 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). Ensure adequate ventilation.
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. Prevent formation of aerosols. Keep container tightly sealed.
Storage temperature: Room Temperature.
Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Use with adequate ventilation.

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 self-contained respiratory protective device.
Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Skin protection: Wear protective gloves and clothing.
Eye protection: Tightly sealed goggles
Additional clothing and/or equipment: Eye wash station.
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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: Yellow liquid
Odor (threshold): Characteristic
Specific Gravity (H₂O=1): ND
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): ND
Boiling Point: 325 °C
Freezing point / melting point: ND
pH: ND
Solubility in Water: Not miscible or difficult to mix.
Molecular Weight: ND
Solvent content: Organic solvents: 0.0 %, Water: 5.0 %
VOC (EC): 0.00 %

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

**Section 11: Toxicological Information**
Results of component toxicity test performed: Acute toxicity
Human experience:
On the skin: Irritant to skin and mucous membranes.
On the eye: Irritating effect.
Sensitization: No sensitizing effects known.
This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.
See Section 3.

**Section 12: Ecological Information**
Ecological Information:
Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.
**Behavior in environmental systems:**
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
**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: None
Must not be disposed 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: Not Regulated
IATA: Proper shipping name: Not Regulated
Canadian TDG: Not Regulated
Marine Pollutant: No

Section 15: Regulatory Information
United States Federal Regulations
SARA: Section 355 (extremely hazardous substances): None of the ingredients is listed.
Section 313 (Specific toxic chemical listings): None of the ingredients is listed.
SARA Title III: ND
RCRA: None of the ingredients is listed.
TSCA: All ingredients are listed.
CERCLA: None of the ingredients is listed.

State Regulations
California Proposition 65: None

International Regulations
Canada WHMIS: None of the ingredients is listed.
Europe EINECS Numbers: ND

Section 16: Other Information
Label Information: ND
European Risk and Safety Phrases: See Section 2
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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