

Safety Data Sheet

**Product No. 18301 Nonenyl Succinic Anhydride,
(NSA)**

Issue Date (04-09-15)

Review Date (09-11-15)

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

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: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS Pictograms



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

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 (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

Principle Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m³	ACGIH TLV mg/m³	NTP	IARC	OSHA regulated
Nonenyl Succinic Anhydride (NSA), Mixture of substances nonhazardous additions. (28928-97-4)	ND	NE	NE	No	No	No

Dangerous components: Void

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

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