

# **Safety Data Sheet**

Product No. 813-514, 813-515 Pelco® Slow Cure Hardener

**Issue Date (09-30-15) Review Date (08-31-17)** 

## **Section 1: Product and Company Identification** Product Name: Pelco® Slow Cure Hardener

Synonym: none **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**











GHS06

GHS05

GHS08

GHS09

### **GHS Categories**

GHS05 – Corrosive

Skin Corrostion/Irritation 1B Serious Eye Damage/Irritation 1

GHS06 - Toxic

Acute Toxicity, Oral 4

Acute Toxicity, Dermal 4 Acute Toxicity, Inhalation 3

GHS07 - Irritant

Respiratory Sensitization 1

Skin Sensitization 1

GHS08 - Health hazard

Germ Cell Mutagenicity 2 Reproductive Toxicity 2

STOT, Repeated Exposure 2

GHS09 – Environment

Aquatic Hazard, Acute 1

Aquatic Hazard, Long Term 1

Flammable Liquids 4

H314 Causes severe burns and eye damage.

H318 Causes serious eye damage.

H303 Harmful if swallowed.

H312 Harmful in contact with skin.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to central nervous system through

prolonged or repeated exposure by skin absorption.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long-lasting effects.

H227 Combustible liquid.

### 2.2 Label elements

### **Hazard Pictograms**









# **Signal Word: DANGER**

#### **Hazard Statements**

H227 Combustible liquid. H303 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to central nervous system through prolonged or repeated exposure by skin

absorption.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long-lasting effects.

# **Precautionary Statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from flames and hot surfaces. No smoking.
P260	Do not breathe mist, vapors or spray.
P264	Wash exposed area with plenty of water and soap thoroughly after handling.
P270	Do not eat, drink or smoke while using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed outside the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation, wear respiratory protection.
P301+P330+P312	IF SWALLOWED: Rinse mouth. Call a poison center or physician if you feel unwell.
P303+P361+P353	IN ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. 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 so. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. P308+P313 Immediately call poison center or doctor/physician. P310

P331 Do not induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention. P333+P313

Wash contaminated clothing before reuse. P363

In case of fire: Use alcohol-resistant foam, dry chemical, or carbon P370+P378

dioxide for extinction.

P391 Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Keep cool. P403+P233+P235

P405 Store locked up.

### 2.3 Other hazards

#### **Health Effects:**

NFPA Hazard Rating: Health: 3; Fire: 1; Reactivity: 0

HMIS® Hazard Rating: Health: 3; Fire: 1; Physical hazard: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

### Results of PBT and vPvB assessment: ND

## **Emergency overview**

Appearance: Clear liquid or pigmented liquid.

Immediate effects: Corrosive epoxy hardener. Certain individuals may have pre-existing skin or respiratory conditions causing a sensitivity or allergy which manifest as various reactions. Heating or spraying this product or the mixed parts increases potential health hazards. Health and safety personnel should examine the handling procedures and remedy any existing or potential health and safety hazards.

## **Potential health effects**

Primary Routes of entry: ND

Signs and Symptoms of Overexposure: Skin rash, irritation, reddening, or eczema;

Breathing irritation or difficulty.

Eyes: Causes serious eye damage, including tearing, redness, swelling, burning and blindness.

Skin: Corrosive! Harmful in contact with skin. Contact may result in pain, severe local redness, burns and tissue damage. Prolonged contact may result in absorption of harmful amounts. A more severe response may be expected if skin is abraded.

Ingestion: Harmful if swallowed. May cause burns to the mouth, throat or stomach. Adverse symptoms may include abdominal pain, nausea and diarrhea.

Inhalation: Can cause severe eye, skin and respiratory system irritation. Adverse symptoms may include nausea, headache and difficulty breathing.

Chronic Exposure: Repeated exposure can cause irritation and sensitization, mutagenic effects, carcinogenicity, and reproductive toxicity. Also specific organ toxicity: Liver, kidney, endocrine system, central nervous system, respiratory system.

**Nonylphenol, CAS #: 84852-15-3:** Category 2 Estrogenic substance and endocrine disruptor. Has hormone-like effects in both wildlife and humans. Acts as an obesity enhancing chemical. Affect insulin signaling in the liver of experimental animals.

Confidential Component 1, CAS #: Trade Secret: Category 2; kidney and liver damage.

Chemical Listed As Carcinogen Or Potential Carcinogen: None  $\leq 0.1\%$ 

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)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP Carcinogen	IARC Carcinogen	OSHA regulated Carcinogen
Polyoxypropylenediamine (9046-10-0) EC No. 618-561-0	45- 100	NE	NE	No	No	No
1-(2-Aminoethyl) piperazine	10-20	NE	NE	No	No	No

(AEP) (140-31-8) EC No. 205-411-0						
Nonylphenol (84852-15-3) EC No. 284-325-5	10-20	NE	NE	No	No	No
Confidential component #1 (Trade Secret)	1-5	NE	NE	No	3	No
Confidential component #2 (Trade Secret)	1-5	NE	NE	No	No	No

### **Section 4: First Aid Measures**

# If accidental overexposure is suspected

Eye(s) Contact: Immediate medical attention required. Chemical burns must be treated promptly by a

physician or ophthalmologist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing for at least 15 minutes. Do

not rub eyes in order to prevent corneal injury.

Skin Contact: Immediate medical attention required. Chemical burns must be treated promptly by a

physician or dermatologist. Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and wash them before reuse. For severe exposures, immediately get under safety shower and begin

rinsing.

Inhalation: Immediate medical attention required. Remove victim to fresh air and keep at rest in a

comfortable position for breathing. If not breathing, provide artificial respiration. If

unconscious, place in recovery position and maintain an open airway.

Ingestion: Immediate medical attention required. Remove victim to fresh air and keep at rest in a

comfortable position for breathing. If the exposed person is conscious, rinse mouth with water and then give plenty of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Do not induce vomiting unless directed to do so by medical personnel. If unconscious, place in recovery position and get medical attention

immediately. Maintain an open airway.

### Note to physician

Treatment: Specific antidotes or neutralizers do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Symptoms of poisoning may even occur after several hours. Recommended medical monitoring for at least 48 hours.

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed.

Skin: This product contains a component that is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: Inducing vomiting can be contraindicated because of the irritating nature of the chemical. Medical Conditions generally Aggravated by Exposure: Liver, kidney, endocrine system, respiratory and skin disorders, if product is handled without adequate protection.

### **Section 5: Fire Fighting Measures**

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Alcohol-resistant foam, dry chemical or carbon dioxide fire extinguishers. Do not use direct water stream.

Special Fire Fighting Procedures: Wear NIOSH or OSHA approved self-contained breathing apparatus in positive pressure mode with full face piece and full protective gear. Isolate the scene by removing all persons from the incident area. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Unusual Fire and Explosion Hazards: If heated above its flash point, product will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below normal flash point. Keep away from extreme heat or open flame. Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area.

Note: Contains 1-(2-Aminoethyl) piperazine (AEP), CAS #140-31-8: Combustible Liquid, Class IIIA (Flash point 140-200°F) per OSHA 29 CFR 1910.106; Flammable Liquid, Category 4 per GHS.

Hazardous combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules.

DOT Class: Corrosive.

## **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled:

Personal precautions, protective equipment and emergency procedures: Keep unnecessary and unprotected personnel from entering. Ensure adequate ventilation. Do not breathe vapors or mist during cleanup. Use protective equipment (see Section 8).

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform relevant authorities if the product has caused environmental pollution. Water-polluting material. Hazardous to the environment.

Methods and materials for containment and cleanup: Isolate spill area. Keep out of sewer and storm drains. Absorb spill with non-combustible materials and scoop up. Clean up spill residues with soap and 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:

Handling Protect chemical from atmospheric moisture. Avoid prolonged exposure to heat and air.

Keep away from sources of ignition. Do not reseal if contamination is suspected.

Storage Store in original or approved alternative containers. Protect from sunlight in a dry, cool,

well-ventilated area, away from incompatible materials. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect against physical damage and moisture. Keep away from heat, sparks, and flame. Do not cut, drill, grind, weld or perform similar operations on or near containers. Use appropriate containment to avoid

environmental contamination.

Storage temperature: 18-27 °C (65-80 °F)

Storage Pressure: ND

# **Section 8: Exposure Controls / Personal Protection**

## **Engineering Controls**

Ventilation required: Good local and general ventilation should be sufficient to control worker exposure to airborne contaminants below recommended exposure limits. Local exhaust may be required in some areas.

## **Personal Protection Equipment**

Respiratory protection: When ventilation is inadequate, use either an atmosphere-supplying respirator or

NIOSH or OSHA approved air-purifying respirator for organic vapors.

Protective gloves: Use impervious gloves.

Skin protection: Cover body with appropriate protective clothing depending on the task being

performed.

Eye protection: Wear safety goggles, or use full face shield when there is a greater risk of splash.

Do not wear contact lenses.

Additional clothing and/or equipment: Emergency eyewash fountains and safety showers.

## **Exposure Guidelines**

See Composition/Information on Ingredients (Section 3)

# **Section 9 Physical and Chemical Properties**

Appearance and Physical State: Clear or pigmented liquid.

Odor (threshold): Irritating, ammonia-like (ND) Specific Gravity (H<sub>2</sub>O=1): 0.95-1.00 g/cm<sup>3</sup>

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: 11-13

Solubility in Water: ND

### **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions. Product is hygroscopic; contamination with moisture will negatively affect product performance.

Conditions to Avoid: Unintentional contact with moisture, excessive heat, open flame and sparks.

Materials to Avoid (Incompatibility): Strong oxidizing agents. Water, bases, acids, copper, aluminum, and zinc alloys.

Hazardous Decomposition Products: Depend upon temperature, air supply and presence of other materials. Can include, but not limited to, carbon dioxide, carbon monoxide, nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules.

Hazardous Polymerization: Will not occur.

# **Section 11: Toxicological Information**

Results of component toxicity test performed:

Components	Results
Polyoxypropylenediamine,	Acute Toxicity
CAS #: 9046-10-0	Oral LD50 (Rat): 2,000-5,000 mg/kg (OECD Test Guideline 401); May cause
	burns to mouth, throat and stomach.
	Dermal LD50 (Rabbit): 2,000-5,000 mg/kg(OECD Test Guideline 402);
	Causes severe burns. pain or irritation, redness, blistering.
	Inhalation LC50 (Rat), Vapor: >0.5-2.0 mg/L (OECD Test Guideline 403);
	May give off gas that is very irritating or corrosive to the respiratory system.
	Exposure to decomposition products may cause a health hazard. Serious
	effects may be delayed following exposure.
	Skin corrosion/irritation (Rabbit): Corrosive (OECD Test Guideline 404)
	Serious eye damage/eye irritation (Rabbit): Corrosive (OECD Test Guideline
	405). Causes serious eye damage. Pain, watering, redness
	STOT, SE: No data available
	Aspiration hazard: No data available
	<u>Chronic Toxicity</u>
	Sensitization, skin and respiratory: No data available
	Germ cell mutagenicity: Not mutagenic in a standard battery of genetic

	toxicological tests. In vitro: Bacteria and Mammals Cells: Negative; In vivo: Mammals: Negative Carcinogenicity: No data available Reproductive toxicity (Rat, male/female): Negative (OECD Test Guideline 421)
	STOT, RE: (Rat, Male/Female), 90days:: sub-chronic NOAEL/Dermal: 250 mg/kg/d (OECD Test Guideline 411)
1-(2-Aminoethyl)	28days: sub-chronic NOAEL/Oral: 239 mg/kg/d (OECD Test Guideline 407)
piperazine, (AEP), CAS #: 140-31-8	Acute Toxicity Oral LD50 (Rabbit): 2,097 mg/kg (No official guidelines) Dermal LD50 (Rabbit): 866 mg/kg (No official guidelines) Ingestion Effects: Severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Inhalation Effects: Can cause severe eye, skin and respiratory tract burns. Inhalation of vapors and/or aerosols in high concentration may cause nose, throat and lung irritation. May cause irritation of respiratory system. Skin corrosion/irritation (Rabbit), 4hrs: Toxic in contact with skin. Causes skin burns. Severe skin irritation. Serious eye damage/eye irritation (Rabbit), 72hrs: Causes eye burns. May
	cause blindness. Severe eye irritation. STOT, single: No data available Aspiration hazard: No data available
	Chronic Toxicity Sensitization, skin and respiratory (Guinea pig): May cause sensitization by skin contact.
	Germ cell mutagenicity: May be mutagenic, the data is inconclusive.  Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, OSHA and ACGIH.
	STOT, RE: Sore throat. Eye disease. Skin disorders. Allergies. Asthma. Reproductive toxicity: (Rat, Male/Female): Maternal toxicity: Negative; Fertility: Negative; Developmental effects: Negative (OECD Test Guideline 422) STOT, RE: Prolonged contact may result in chemical burns and permanent
	damage., Repeated or prolonged contact causes sensitization, asthma and eczemas, eye disease, skin disorders, allergies and
	asthma. (Rat, Male/Female): Sub-acute NOAEL/Oral: 151 to 285 mg/kg/d (OECD Test Guideline 422);
	Sub-acute NOAEL/Dermal, 21/28-day: >1,000 mg/kg/d (OECD Test Guideline 410)
Nonylphenol CAS #: 84852-15-3	Acute Toxicity Oral LD50 (Rat): 1,412 mg/kg Dermal LD50 (Rabbit): 2,031 mg/kg Inhalation LC50 (Rat),: No data available
	Skin corrosion/irritation (Rabbit), 4hrs: Causes burns (OECD Test Guideline 404)
	Serious eye damage/eye irritation (Rabbit), 72hrs: Corrosive (OECD Test Guideline 405) STOT, SE: No data available
	Aspiration hazard: No data available
	Chronic Toxicity Sensitization, skin and respiratory (Guinea pig): Not sensitizing (Guinea pig maximization test) (OECD Test Guideline 406) STOT, RE: Estrogenic substance and endocrine disruptor. Has hormone-like effects in both wildlife and humans. Acts as an obesity enhancing chemical. Affect insulin signaling in the liver of adult male rats. Central nervous system by skin absorption; Category 2 Germ cell mutagenicity: Not genotoxic
	Carcinogenicity: No component of this product present at levels greater than

	or equal to 0.10/ is identified as makele massifile of Country
	or equal to 0.1% is identified as probable, possible or confirmed human
	carcinogen by IARC, NTP, OSHA and ACGIH.
	Reproductive toxicity: The results of animal studies suggest a fertility
	impairing effect. Rat, Oral / Effects on newborn: growth statistics (e.g.,
	reduced weight gain). Suspected human reproductive toxicant.
Confidential Component	Acute Toxicity
1,	Oral LD50 (Rat): >5,000 mg/kg mg/kg (OECD Test Guideline 401)
CAS #: Trade Secret	Dermal LD50 (Rabbit): >2,000 mg/kg mg/kg (OECD Test Guideline 402)
Cris II. Trade Secret	Inhalation LC50 (Rat),: No data available
	Skin corrosion/irritation (Rabbit): Non-irritant (OECD Test Guideline 404)
	Serious eye damage/eye irritation (Rabbit): Non-irritant. (OECD Test
	Guideline 405)
	STOT, SE: No data available
	Aspiration hazard: No data available
	Chronic Toxicity
	Sensitization, skin and respiratory: Not skin sensitizing (OECD Test
	Guideline 406, Guinea pig maximization test)
	Germ cell mutagenicity: Negative results In vitro tests in Bacteria and
	Mammals
	Carcinogenicity: (Rat, male, female) 103 weeks/5 days per week:
	NOAEL/Dermal: 250 mg/kg: Negative (OECD Test Guideline 451) IARC:
	Group 3
	Reproductive toxicity: (Rat, Male/Female): Maternal toxicity: Negative;
	Fertility: Positive; Developmental effects: Negative (OECD Test Guideline
	421)
	STOT, RE: kidneys and liver; Category 2
	(Rat, Male/Female), 90days: sub-chronic NOAEL/Oral: >1,000 mg/kg/day
	(OECD Test Guideline 408)
	90days: sub-chronic NOAEL/Dermal: 125 to 500 mg/Kg (OECD Test
	Guideline 411)
	28 or 14days, sub-acute NOEC/ Inhalation, dusts and mists: 500 mg/ m <sup>3</sup>
	(OECD Test Guideline 412)
Confidential Component	Acute Toxicity
2,	Oral LD50 (Rat): 2,000-5,000 mg/kg mg/kg (OECD Test Guideline 401)
CAS #: Trade Secret	Dermal LD50 (Rabbit): >5,000 mg/kg mg/kg (OECD Test Guideline 402)
CAS #. Trade Secret	Inhalation LC50 (Mammals, unspecified): Severe Respiratory irritant
	Skin corrosion/irritation (Rabbit): Corrosive (OECD Test Guideline 404)
	Serious eye damage/eye irritation (Mammals, unspecified): Corrosive (No
	official guidelines)
	STOT, SE: No data available
	Aspiration hazard: No data available
	Chronic Toxicity
	Sensitization, skin and respiratory: Respiratory Sensitizer in Humans; Skin
	Sensitizer in Humans and Guinea pig (No official guidelines)
	Germ cell mutagenicity: various In vitro and In vivo tests: negative and
	positive results
	Carcinogenicity: No data available
	Reproductive toxicity (Rat, Male/Female): Maternal toxicity: Positive;
	Fertility: Positive (OECD 416, Two Generation Reproduction Toxicity Study)
	STOT, RE: (Human), Sub-acute LOAEL/Oral: 30 mg/kg/d (No official
	guidelines)
	(Rat, Male/Female), Sub-chronic NOAEL/Oral: 627 mg/kg/d (No official
	guidelines)
	guidennes

# Human experience:

Respiratory and skin sensitizer: contains components reported to be a respiratory and skin sensitizer:

1-(2-Aminoethyl) piperazine, (AEP), CAS #: 140-31-8: skin sensitizer

Confidential Component 2, CAS #: Trade Secret: skin and respiratory sensitizer.

Germ cell mutagenicity: contains components suspected to have a mutagenic effect:

Confidential Component 1, CAS #: Trade Secret

Reproductive toxicity: contains components reported to be suspected human reproductive toxicants:

Nonylphenol, CAS #: 84852-15-3: effects on newborn

Confidential Component 1, CAS #: Trade Secret

Specific organ toxicity, repeated exposure: liver, kidney, endocrine system, central nervous system, respiratory system:

Nonylphenol, CAS #: 84852-15-3: Category 2 Estrogenic substance and endocrine disruptor. Has hormone-like effects in both wildlife and humans. Acts as an obesity enhancing chemical. Affect insulin signaling in the liver of experimental animals.

Confidential Component 1, CAS #: Trade Secret: Category 2; kidney and liver damage.

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:**

Ecotoxicity: Acutely and chronically hazardous for aquatic organisms.

Bioaccumulative potential: Low, except for Nonylphenol.

Other adverse effects: Very toxic to aquatic life with long lasting effects. Do not allow product to reach ground water, water course or sewage system. Presents danger to drinking water if even small quantities leak into the ground.

# **Ecotoxicity test results**

Components	Test Results
Polyoxypropylenediamine,	Aquatic toxicity: An environmental hazard. Toxic to aquatic life with long
CAS #: 9046-10-0	lasting effects.
	Acute Toxicity:
	Fish, 96hrs: EC50: 10-100 mg/L (OECD 203, semi- static); 96hrs: >750 mg/L
	(OECD Test Guideline 203, static)
	Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 10-100 mg/L (OECD Test Guideline 202, Immobilization test, static)
	Aquatic plants (green algae), 72hrs: ErC50: 10-100 mg/L (OECD Test
	Guideline 201, Growth Inhibition Test)
	Chronic Toxicity:
	Bacteria, 3hrs: EC50: 750 mg/L (OECD 208, Seedling Emergence and
	Seedling Growth Test, Static)
	Aquatic plants (Algae), 72 hours: NOEC: ≤1 mg/L (OECD Test Guideline
	201, Growth Inhibition Test, Static)
	72 hours: NOECb: 100 mg/L (ISO 10253:2006, Marine algal growth
	inhibition test, Static)
	Activated Sludge (Bacteria), 3hrs: NOEC 310 mg/L (OECD Test Guideline
	209, Respiration Inhibition Test, Static)
	Ecological Data:
	Persistence and degradability: Not readily biodegradable; 0% in 28 days
	(OECD Test Guideline 301B)
	Aquatic half-life: Fresh water 360 days; Photolysis: 0.02 to 0.03 days
	Bioaccumulative potential : low; LogPow: 1.34;
	Mobility in soil: Not available.
1-(2-Aminoethyl)	Acute Toxicity:
piperazine, (AEP),	Fish, 96hrs: LC50: 2,190 mg/L (Static)
CAS #: 140-31-8	Aquatic plants (Algae), 72hrs: EC50: >1,000 mg/L (OECD 201, Growth
	Inhibition Test)
	Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 10-100 mg/L (OECD
	202, Immobilization Test, Static)
	Chronic Toxicity:
	(Bacteria), 2hrs: EC10: 250 mg/L (No official guidelines)
	(Bacteria), 1hr: EC20: 1,600 mg/L (Static)
	Activated sludge microorganisms (Bacteria), 2hrs: EC50: 511 mg/L (ISO ISO 9509:2006, Toxicity test for assessing the inhibition of nitrification, Static)
	Ecological Data:
	Persistence and degradability: Not readily biodegradable; 0% in 28 days
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	(OECD 301F, Manometric Respirometry Test)
	Photolysis: 0.08 days: 50%
	Bioaccumulative potential: low; LogPow: -1.48
	Mobility in soil: Not available.
Nonylphenol	Aquatic toxicity
CAS #: 84852-15-3	An environmental hazard. Very toxic to aquatic life with long lasting effects.
	Acute Toxicity
	Fish (fathead minnow), 96hrs: LC50: 0.209 mg/L
	Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 0.0844 mg/L
	Aquatic plants (green algae), 72hrs: EC50: 0.33 mg/L
	Ecological Data
	Biodegradability (aerobic), 28days: 62% BOD: Readily biodegradable
	(OECD Test Guideline 301F)
	Remarks: The 10 day time window criterion is not fulfilled.
	Bioaccumulative potential (fathead minnow), 28days: high; Bioconcentration
	factor (BCF): 740
Confidential Commonant	Mobility in soil: low.
Confidential Component 1,	Acute Toxicity: Fish, 96hrs: LC50: >10,000 mg/L (No official guidelines)
CAS #: Trade Secret	Aquatic plants (Algae), 72hrs: ErC50: >100 mg/L (DIN 38412 part 9, static,
CAS #. 11ade Secret	growth rate)
	Activated Sludge (Bacteria), 3hrs: EC50: >1,000 mg/L (OECD Test
	Guideline 209, Respiration Inhibition Test, Static)
	Chronic Toxicity:
	Aquatic invertebrates (Daphnia magna), 21days: NOEC: <15 mg/L (No
	official guidelines, semi-static)
	Aquatic plants (Algae), 72hrs: LOAEL: <25 mg/L (DIN 38412 part 9, static)
	Ecological Data:
	Persistence and degradability: Readily biodegradable; 100% in 5 days.
	Bioaccumulative potential: low; LogPow: -2.3; BCF: <3.9
	Mobility in soil: Not available.
Confidential Component	Acute Toxicity:
2,	Fish, 96hrs: LC50: 1,500-2,000 mg/L (EU EC C.1, Semi-static)
CAS #: Trade Secret	Aquatic invertebrates (Daphnia magna), 48 hours: EC50: 10-100 mg/L (EU EC C.2, Static)
	Chronic Toxicity:
	Bacteria, 30minutes: NOEC: <500 mg/L (No official guidelines, Static)
	Aquatic invertebrates (Daphnia magna), 21 days: NOEC: <10 mg/L (OECD
	211, Reproduction Test, Semi-static)
	Aquatic plants (Algae), 72hrs: NOECr: >1,000 mg/L (OECD 201, Static,
	Growth Inhibition Test)
	Ecological Data:
	Persistence and degradability: Readily biodegradable; 70 % in 28 days
	(OECD 301F, Manometric Respirometry Test)
	Photolysis, 0.1 day: 50%;
	Bioaccumulative potential: low; LogPow: -1.24; BCF: 3.9
	Mobility in soil: Not available.

# **Chemical Fate Information:**

Persistence and biodegradability: Mixture consists of biodegradable and non-biodegradable components.

# **Section 13 Disposal Considerations**

RCRA 40 CFR 261 Classification: None

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

# **Section 14: Transportation Information**

<u>US DOT Information</u>: Proper shipping name: Amines, liquid, corrosive, n.o.s., (contains Polyoxypropyleneamines)

Hazard Class: 8 Packaging group: III UN Number: UN2735

IATA: Proper shipping name: Amines, liquid, corrosive, n.o.s., (contains Polyoxypropyleneamines)

Hazard Class: 8 Packaging group: III UN Number: UN2735

Limitations: Passenger and cargo aircraft: 5L; packaging instructions 852. Cargo aircraft only: 60L; packaging

instructions 856.

<u>IMO:</u> Proper shipping name: Amines, liquid, corrosive, n.o.s., (contains Polyoxypropyleneamines)

Hazard Class: 8 Packaging group: III UN Number: UN2735 Marine Pollutant: Yes

Canadian TDG: Amines, liquid, corrosive, n.o.s., (contains Polyoxypropyleneamines)

# **Section 15: Regulatory Information**

# **United States Federal Regulations**

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

SARA: ND

SARA Title III: Section 311 and 312, Immediate Health Hazard. Section 313, Chemicals

above de minimis level: None

RCRA: ND

TSCA: All components are listed or exempt.

CERCLA: No components are subject to reporting. The following are subject to reporting if the RQ of 100 lbs. is met:

Propylene oxide, CAS# 75-56-9 Diethanolamine, CAS# 111-42-2

## **State Regulations**

California Proposition 65: This product contains trace amounts of chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Propylene oxide, CAS #: 75-56-9: causes cancer; Date listed: October 1, 1988 Diethanolamine, CAS #: 111-42-2: causes cancer; Date listed: June 22, 2012

#### **International Regulations**

Canada WHMIS: Class D Division 2A, Class D Division 2B, Class E Corrosive

Europe EINECS Numbers: See section 3

### **Section 16: Other Information**

Label Information: See section 2

European Risk and Safety Phrases: ND

European symbols needed: ND Canadian WHMIS Symbols:







# Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

### **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.

SDS Form 0013F1V4