Section 1: Product and Company Identification

Product Name: Araldite 502
Synonym: Araldite GY 502
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

GHS07  GHS08  GHS09

GHS Categories
GHS07 - Irritant
Skin Irrit. 2 H315: Causes skin irritation.
Eye Irrit. 2 H319: Causes serious eye irritation.
Skin Sens. 1 H317: May cause an allergic skin reaction.

GHS08 – Health Hazard
Reprod. 1B H360: May damage fertility or the unborn child.

GHS09 – Environment
Aq. Chronic 2 H411: Toxic to aquatic life with long-lasting effects.

2.2 Label elements

Hazard Pictograms

GHS07  GHS08  GHS09

Signal Word: Danger
Hazard-determining components of labeling: Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight ≤700)
dibutyl phthalate

Hazard Statements
H315  Causes skin irritation.
H319  Causes serious eye irritation.
H317  May cause an allergic skin reaction.
H360  May damage fertility or the unborn child.
H411  Toxic to aquatic life with long lasting effects.

Precautionary Statements
P261  Avoid breathing dust/fume/gas/mist/vapors/spray.
P280  Wear protective gloves/protective clothing/eye protection/face 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: 1; Fire: 1; Reactivity: 0
HMIS® Hazard Rating: Health: 1; Fire: 1; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: A Chemical Safety Assessment has not been carried out.
PBT: NA
vPvB: NA

Emergency overview
Appearance: Liquid
Immediate effects: ND

Potential health effects
Primary Routes of entry: Skin and eye contact, inhalation, ingestion
Signs and Symptoms of Overexposure: ND
Eyes: Causes serious eye irritation.
Skin: Causes irritation to skin and mucous membranes. Contains epoxy constituents; may cause an allergic skin reaction. Sensitization possible.
Ingestion: ND
Inhalation: ND
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) (chemical and common name(s)) (Cas. No)</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>Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin</td>
<td>50-100</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: Immediately wash with water and soap and rinse thoroughly.
Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
Ingestion: If symptoms persist consult doctor.
Note to physician
Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures
Flash Point: 188 °C
Flammability (solid, gaseous): Not flammable.
Flammable Limits: Lower: 0.1 Vol %, Upper: 2.0 Vol %
Auto-ignition point: Product is not self-igniting.
Ignition temperature: 390 °C.
Fire Extinguishing Media: Use firefighting measures that suit the environment.
Special Fire Fighting Procedures: Protective equipment – no special measures required.
Unusual Fire and Explosion Hazards: Product does not present an explosion hazard.
Hazardous combustion products: ND
DOT Class: 9

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: Inform respective authorities in case of seepage into water course or sewage system. 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:
Handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
Storage: Keep receptacle tightly sealed. Keep respiratory protective device available (for fire and explosion protection).
Storage temperature: Room temperature
Storage Pressure: NA
Section 8: Exposure Controls / Personal Protection

Engineering Controls
Ventilation required: Use with good ventilation.

Ingredients with limit values that require monitoring at the workplace:
Dibutyl phthalate (84-74-2) WEL Short-term value: 10 mg/m^3
  Long-term value: 5 mg/m^3

Personal Protection Equipment
General: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store any protective clothing separately. Avoid contact with the eyes and skin.

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.

Protective gloves: Wear protective gloves.
Skin protection: Wear protective clothing.
Eye protection: Tightly-sealed goggles.

Additional clothing and/or equipment: ND

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

Section 9 Physical and Chemical Properties
Appearance and Physical State: Light colored liquid.
Odor (threshold): Characteristic (ND)
Specific Gravity (H₂O=1): ND
Vapor Pressure (mm Hg): ND
Vapor Density (air=1):
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): ND
Boiling Point: 340 °C
Freezing point / melting point: ND
pH: ND
Solubility in Water: Not miscible or difficult to mix.
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: Stable.
Conditions to Avoid: ND
Materials to Avoid (Incompatibility): ND
Hazardous Decomposition Products: None known.
Hazardous Polymerization: ND

Section 11: Toxicological Information
Results of component toxicity test performed:
Acute toxicity (84-74-2 Dibutyl phthalate):
  Oral LD50 (Rat): 8000 mg/kg
  Dermal LD50 (Rabbit): 20000 mg/kg
Primary irritant effect:
  On the skin: Irritant to skin and mucous membranes.
  On the eye: Irritating effect.
Sensitization: Sensitization possible through skin contact.
Additional toxicological information: The product is an irritant according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Repr. 1B
Carcinogenic categories:
   IARC (International Agency for Research on Cancer): None of the ingredients is listed.
   NTP (National Toxicology Program): None of the ingredients is listed.
Human experience: ND
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:
Ecotoxic effects: Toxic for fish.
Additional ecological information: Water hazard class 2 (Self-assessment): Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: ND
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: Environmentally hazardous substance, liquid, n.o.s. (reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700), Dibutyl phthalate)).
   Hazard Class: 9
   Packaging group: III
   UN Number: UN3082
   Limitations: DOT regulated only for non-bulk shipments in containers greater than or equal to 62.5lbs. Dibutyl Phthalate: RQ = 10 lbs (4.54 kg).
IATA: Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700), Dibutyl phthalate)).
   Hazard Class: 9
   Packaging group: III
   UN Number: UN3280
   Marine Pollutant: Yes
Canadian TDG: Environmentally hazardous substances, liquid, n.o.s. (reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight ≤ 700), Dibutyl phthalate)).

Section 15: Regulatory Information
United States Federal Regulations
SARA: Section 355 (extremely hazardous substances): None of the ingredients is listed
SARA Title III: Section 313 (Specific toxic chemical listings): 84-74-2 Dibutyl phthalate
RCRA: ND
TSCA: All ingredients are listed.
CERCLA: Dibutyl Phthalate: RQ = 10 lbs (4.54 kg).

State Regulations
California Proposition 65:
Chemicals known to cause cancer: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females: 84-74-2 Dibutyl phthalate.
Chemicals known to cause reproductive toxicity for males: 84-74-2 Dibutyl phthalate.
Chemicals known to cause developmental toxicity: 84-74-2 Dibutyl phthalate.

**International Regulations**
Canada WHMIS: D2A - Very toxic material causing other toxic effects.
Europe EINECS Numbers: See section 3.

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**Section 16: Other Information**
Label Information: Irritant, Health Hazard
European Risk and Safety Phrases: ND
European symbols needed: Toxic, Dangerous for the environment.
Canadian WHMIS Symbols: Very toxic material causing other toxic effects.

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

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**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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