

Safety Data Sheet

Product No. 18060 Araldite 502

Issue Date (5-27-15)

Review Date (9-25-15)

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

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

GHS Pictograms



GHS07



GHS08



GHS09

GHS Categories

GHS07- Irritant

Skin Irrit. 2

Eye Irrit. 2

Skin Sens. 1

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (25068-38-6) NLP: 500-033-5 H315; H319; H317; H411	50- 100	NE	NE	No	No	No
Dibutyl phthalate (84-74-2) EINECS: 201-557-4 H360; H400	10-25	5	5	No	No	No

SVHC: 84-74-2 Dibutyl phthalate

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/m³
Long-term value: 5 mg/m³

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 \leq 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 \leq 700), Dibutyl phthalate)).

Hazard Class: 9

Packing 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 \leq 700), Dibutyl phthalate)).

Section 15: Regulatory Information

United States Federal Regulations

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

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.

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

Disclaimer

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