

Safety Data Sheet

Revision Date: June 18, 2024

1. Product and Company Identification

Product Name: Araldite 502

Product Catalog Number(s): 21300

Identified Uses: Laboratory use. Manufacture of substances.

Supplier of the Safety Data Sheet:

Ladd Research

3 Ewing Place

Essex Junction, VT 05452

Telephone: (802) 658-4961

FAX: (802) 660-8859

Emergency Telephone Number: +1-703-741-5500 (Chemtrec)

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Health Hazards

Skin corrosion (Category 1)

Serious eye damage (Category 1)

Skin sensitization (Category 1)

Carcinogenicity (Category 1B)

Aquatic chronic (Category 2)

GHS Label elements, including precautionary statements



Symbols

Signal Word

Danger

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-la

P261

Avoid breathing dust/fume/gas/mist/vapors/spray

P280

Wear protective gloves/clothing/eye protection/face protection

P264

Wash thoroughly after handling

P363

Wash contaminated clothing before reuse

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P308+313	If exposed or concerned: Get medical advice/attention
P333+313	If skin irritation or a rash occurs: get medical advice/attention
P337+313	If eye irritation persists get medical advice/attention
P302+352	IF ON SKIN: Wash with soap and water
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise classified or not covered by GHS

Not applicable

3. Composition/Information on Ingredients

Components	CAS #	EC #	Percentage
Bisphenol A Diglycidyl ether polymer	25068-38-6	500-033-5	80-95
Dibutyl phthalate	84-74-2	201-557-4	2-20

4. First Aid Measures

If inhaled: Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient stably on a side for transportation.

In case of skin contact: Immediately wash with soap and water and rinse thoroughly.

In case of eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed: If symptoms persist, consult a doctor.

5. Firefighting Measures

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, appropriate foam.

Specific Fire Fighting Measures: Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

Special Hazards arising from the substance or mixture: Emits toxic fumes under fire conditions. Product does not present an explosion hazard. Hazardous combustion products: carbon oxides, hydrogen chloride gas.

Further Information: Wear respiratory protection and chemical protective clothing.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Do not release into the environment being especially careful to divert the material away from streams or storm drains.

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13.

For Disposal see section 13

7. Handling and Storage

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of dust and aerosols. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and the skin. Wash hands before breaks and at the end of the work.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Workplace exposure limits:

Dibutyl phthalate – CAS 84-74-2

PEL (long-term) - 5 mg/m³

REL (long-term) - 5 mg/m³

TLV (long-term) - 5 mg/m³

Engineering Controls: A suitable exhaust system should be available. An eyewash station and a safety shower should be available.

Eye/Face Protection: Wear chemical splash goggles, or safety glasses with side shields.

Skin Protection: Wear suitable impervious gloves and lab coat or apron.

Body Protection: Always wear closed toe shoes when handling chemicals.

Respiratory Protection: In the absence of mechanical exhaust wear a full-face respirator with organic vapor cartridges.

9. Physical and Chemical Properties

Appearance: Light-colored liquid

Odor: Nearly odorless (Characteristic)

Boiling Point: >149°C

Flash Point: 200°C (Closed Cup)

10. Stability and Reactivity

Reactivity: No relevant information available.

Chemical Reactivity and Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: No dangerous reactions known.

Conditions to Avoid: No relevant information available.

Incompatible Materials: No relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.

11. Toxicological Information

Acute Toxicity: All data for Dibutyl phthalate

Oral LD₅₀ (rat) – 8000 mg/kg

Dermal LD₅₀ (rabbit) – 20,000 mg/kg

Skin Corrosion/Irritation: Irritant to skin, mucous membranes and eyes.

Serious Eye Damage/Eye Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Sensitization possible through skin contact.

Germ Cell Mutagenicity:

DNA damage / human, lymphocyte – 354 mmol/L

DNA damage / human, other cell types – 354 mmol/L

Carcinogenicity

IARC: No ingredient listed

NTP: No ingredient listed

OSHA: This product does not contain compounds regulated by OSHA as a carcinogen.

Reproductive Toxicity:

Oral , rat TDLo 24 g/kg 20D Male

Oral, rat TDLo 6,750 mg/kg 0-8D Preg

Oral, rat TDLo 2,250 mg/kg 7-9D Preg

Specific Target Organ Toxicity – Single Exposure: No data available

Specific Target Organ Toxicity – Repeated Exposure: No data available

Aspiration Hazard: No data available

12. Ecological Information

Toxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available.

13. Disposal Considerations

Waste Treatment Methods

Product: Incinerate in small portions with an incinerator or entrust to an industrial waste disposal company approved by your local, state and federal authorities.

Contaminated Packaging: If possible, clean and recycle. Or perform suitable processing in accordance with regulations. Remove residual contents completely before an empty container is discarded.

14. Transport Information

DOT (US)

UN #: UN3082

Proper shipping name: Environmentally Hazardous Substances, liquid, n.o.s.
(Bisphenol-a epoxy resin)

Hazard Class: 9

Packing Group: III

IMDG

UN #: UN3082

Proper shipping name: Environmentally Hazardous Substances, liquid, n.o.s.
(Bisphenol-a epoxy resin)

Hazard Class: 9

Packing Group: III

IATA

UN #: UN3082

Proper shipping name: Environmentally Hazardous Substances, liquid, n.o.s.
(Bisphenol-a epoxy resin)

Hazard Class: 9

Packing Group: III

15. Regulatory Information

SARA Section 313

Dibutyl phthalate is listed

TSCA Section 12(b) – Export Notification: This product contains the following chemical that is subject to 12(b)

Dibutyl Phthalate is listed

California Prop. 65 Components:

Chemicals known to cause cancer: None listed

Chemicals known to cause reproductive toxicity for females: Dibutyl phthalate

Chemicals known to cause reproductive toxicity for males: Dibutyl phthalate

Chemicals known to cause developmental toxicity: Dibutyl phthalate

16. Other Information

Not applicable.

The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.