



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: POLYCIZER® DPHP

Chemical Name: bis(2-propylheptyl)phthalate
Synonyms: DPHP; 1,2-Benzenedicarboxylic acid, 1,2-bis(2-propylheptyl) ester * 1,2-BENZENEDICARBOXYLIC ACID, BIS (2-PROPYLHEPTYL) ESTER * 1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester

Recommended Use: Plasticizer

Manufactured for and supplied by:

Supplier: Harwick Standard Distribution Corporation
Supplier Address: 60 S. Seiberling Street, Akron, OH 44305
Contact: Health, Safety & Environment
Telephone: 330-798-9300
Website: www.harwickstandard.com

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture:

Material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Label Elements:

Hazard symbol: None
Signal word: None

Hazard Statements:

No known significant effect or critical hazards.

Precautionary Statements:

Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Hazard(s) not otherwise classified (HNOC): None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS



| Components Chemical Identity | CAS Number | Weight% |
|-------------------------------------|-------------------|----------------|
|-------------------------------------|-------------------|----------------|

| | | |
|------------------------------|------------|-----|
| bis(2-propylheptyl)phthalate | 53306-54-0 | >99 |
|------------------------------|------------|-----|

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 – FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove person to fresh air. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Rinse out mouth. Do not induce vomiting unless directed to do so by medical personnel. If ingestion of large amount occurs or if you feel unwell, contact a poison control center immediately.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

| | |
|----------------------|--|
| Eye contact: | No known significant effects or critical hazards expected under normal use |
| Inhalation: | No known significant effects or critical hazards expected under normal use |
| Skin contact: | No known significant effects or critical hazards expected under normal use |
| Ingestion: | No known significant effects or critical hazards expected under normal use |

Over-exposure signs/symptoms:

| | |
|----------------------|------------------|
| Eye contact: | No specific data |
| Inhalation: | No specific data |
| Skin contact: | No specific data |
| Ingestion: | No specific data |

Indication of immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use carbon dioxide, dry chemical, water spray, foam.

Unsuitable extinguishing method: Do not use water jet as this will spread the fire.



Specific hazards arising from chemical: In a fire or if heated, the product is combustible. Cool endangered containers with water-spray. In case of fire, the following can be released: Carbon monoxide (CO) and Carbon dioxide (CO₂).

Special firefighting equipment and precautions for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Firefighting equipment/instructions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Ensure adequate ventilation. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.

Methods and materials for containment and cleaning up:

For large spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Pump off product, contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

For small spills: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7 - HANDLING AND STORAGE



Precautions for safe handling: Ensure good ventilation. Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None

OSHA-Ca (Occupational Safety & Health Administration): Substance not listed.

TLV (Threshold Limit Value-ACGIH): Substance not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance not listed.

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure



levels, the hazards of the product and the safe working limits of the selected respirator.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of mists. Avoid contact with the skin, eyes and clothing.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

| | |
|-----------------------------------|---------------------------------------|
| Appearance: | Colorless, Clear liquid |
| Odor: | Faint |
| pH: | Neutral @ 20°C (68°F) |
| Boiling Point/Range: | 252-253°C (486-487°C) |
| Melting Point/Range: | -48°C (-54°F) |
| Flash Point (°C): | 220°C (428°F) |
| Flammability: | Not applicable |
| Explosion Limits: | Not explosive. Not applicable. |
| Vapor Pressure: | 0.000000037 Pa @ 20°C (68°F) |
| Relative Density/ | |
| Specific Gravity: | 0.960 g/cm ³ @ 20°C (68°F) |
| Solubility: | <0.0001µg/l @ 25°C (77°F) |
| Partition Coefficient: | >6 log POW @ 25°C (77°F) |
| (n-octanol/water) | |
| Auto-ignition Temperature: | 345°C (653°F) |
| Viscosity: | Not available |
| Density: | Not available |

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Material is stable under recommended storage and handling conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Keep away from sources of ignition: heat, sparks, open flame. Avoid extreme heat.

Incompatible materials: Keep away from strong oxidizing agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION



Acute Toxicity

Assessment of acute toxicity:

| | | |
|-----------------|--------|-------------------|
| LD50 Oral | Rat | >5,000 mg/kg |
| LC50 Inhalation | Rat | >20.5 mg/l 1 hour |
| LD50 Dermal | Rabbit | >2,000 mg/kg |

Irritation/Corrosion:

Skin Irritation
Rabbit-Non-irritant (OECD Guideline 404)

Eye Irritation
Rabbit-Non-irritant (OECD Guideline 405)

Sensitization:

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. (OECD 406)

Mutagenicity:

This product is not considered to be mutagenic.

Not mutagenic in Bacterial Reverse Mutation Assay. (OECD 471)

The substance is not clastogenic. Mammalian Chromosomal Aberration Test (OECD 473).*

Not mutagenic in in vivo Mammalian Erythrocyte Micronucleus Test. (OECD 474) *

* read-across from supporting substance (structural analogue)

Carcinogenicity:

This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity:

| | | |
|-----------------|-----|-----------------------------|
| NOAEL (P) Oral | Rat | 600 mg/kg bw/day (OECD 416) |
| NOAEL (F1) Oral | Rat | 200 mg/kg bw/day (OECD 416) |
| NOAEL (F2) Oral | Rat | 200 mg/kg bw/day (OECD 416) |

Teratogenicity:

No information available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: LC50 (zebra fish) 96 h: > 10,000 mg/l

Aquatic Invertebrates: EC50 (daphnia magna) 48 h: > 100 mg/l

Aquatic Plants: EC50 (green algae) 72 h: > 100 mg/l

Microorganisms: EC50 (bacterium) 16 h: > 8,000 mg/l



Persistence and degradability: Product is readily biodegradable.

Bioaccumulative potential: Food web studies indicate that higher molecular phthalate esters do not bioaccumulate. Instead these substances exhibit decreasing concentrations from lower to higher trophic levels.

Mobility in soil: The substance has very low water solubility and a high potential of adsorption which indicates a very low mobility in soil.

Additional information:

Results of PBT and vPvB assessment:

PBT: No

vPvB: No

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal instructions: Dispose of in a licensed facility. Do not discharge substance/product into sewer system. This product, in its present state, when discarded or disposed of, is not considered a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of in accordance with national, state and local regulations.

Container disposal instructions: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT Classification: Not DOT regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Substance is listed.

SARA Sections 311 & 312

Superfund Amendments & Reauthorization Act of 1986 Title III

Hazard categories Immediate: No
Delayed: No
Fire: No
Pressure: No
Reactivity: No

SARA Section 313

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR 372: None known.



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SECTION 16 - OTHER INFORMATION

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