



HARWICK
S T A N D A R D

Safety Data Sheet
POLYCIZER[®] DOP
Page 1 of 10

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: POLYCIZER[®] DOP

Other means of identification

Chemical name: Di(2-ethylhexyl) phthalate; (DEHP)

Synonyms: Dioctyl Phthalate; DOP

Recommended use and restrictions on use: Plasticizer

Supplier information:

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:

Eye Irritant, Category 2B

Carcinogenicity, Category 2

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements

Hazard symbol:



Signal word: Warning

Hazard statements:

Causes eye irritation.

Suspected of causing cancer.

Precautionary Statements:

Obtain special instructions before use.



Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Wear eye or face protection.
Wash hands thoroughly after handling.
IF exposed or concerned: Get medical attention/advice.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
Store in a well-ventilated place.
Dispose of contents and container in accordance with all applicable local, state and federal regulations.

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture:

<u>Components</u>	<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
	Di(2-ethylhexyl) phthalate	117-81-7	100

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

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, or breathing is irregular or if respiratory rest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie belt or waistband.

Ingestion: Wash out mouth with water. Remove dentures in any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.



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. Continue to rinse for at least 10 minutes. Get medical attention.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

Eye contact: Causes eye irritation.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: May be irritating to mouth, throat and stomach.

Over-exposure signs/symptoms:

Eye contact: Adverse symptoms may include the following: Irritation, watering, redness
Inhalation: No specific data
Skin contact: No specific data
Ingestion: No specific data

Indication of immediate medical attention and special treatment needed: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray (fog), foam, dry or carbon dioxide (CO₂)

Unsuitable extinguishing method: None known.

Specific hazards arising from chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:

Carbon dioxide
Carbon monoxide

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. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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. 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: 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:

Ingredient Name:

Di(2-ethylhexyl) phthalate



Exposure limits:

OSHA PEL 1989 (1989-03-01)

PEL: Permissible Exposure Level 5 mg/m³

Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing: a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means. 10 mg/m³ OSHA PEL (1993-06-30)

PEL: Permissible Exposure Level 5 mg/m³

NIOSH REL (1994-06-01)

Time Weighted Average (TWA) 5 mg/m³

Pollutant concentration that should not be exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing: a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means. 10 mg/m³ ACGIH TLV (1999-03-01)

TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 5 mg/

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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: chemical splash goggles.

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: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Not available
pH:	Not available
Boiling Point/Range:	Not available
Melting Point/Range:	Not available
Flash Point (°C):	215°C (419°F)
Flammable/Explosion Limits:	Not available
Vapor Pressure:	Not available
Solubility:	Not available
Partition Coefficient: (n-octanol/water)	Not available
Auto-ignition Temperature:	Not available
Viscosity:	Not available
Density:	Not available
Explosive Properties:	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 extreme heat and oxidizing agents.

Incompatible materials: Keep away from strong acids.

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

SECTION 11 - TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.



Acute Toxicity

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Di(2-ethylhexyl) phthalate	LD50 Oral	Rat	30,000 mg/kg	
	LD50 Dermal	Rabbit	25,000 mg/kg	

Irritation/Corrosion:

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Score</u>	<u>Exposure</u>	<u>Observation</u>
Di(2-ethylhexyl) phthalate	Eyes-Mild irritant	Rabbit		24 hrs	
	Skin-Mild irritant	Rabbit		24 hrs	

Skin: Mixture. Not fully tested.

Eyes: Mixture. Not fully tested.

Respiratory: Mixture. Not fully tested.

Sensitization:

Skin: Mixture. Not fully tested.

Respiratory: Mixture. Not fully tested.

Germ cell mutagenicity: Mixture. Not fully tested.

Carcinogenicity:

<u>Product/ingredient name</u>	<u>OSHA</u>	<u>IARC</u>	<u>NTP</u>
Di(2-ethylhexyl) phthalate		2B	Reasonably anticipated to be a human carcinogen

Reproductive toxicity: Mixture. Not fully tested.

Teratogenicity: Mixture. Not fully tested.

Specific target organ toxicity-single exposure: Mixture. Not fully tested.

Specific target organ toxicity-repeated exposure: Mixture. Not fully tested.

Aspiration hazard: Not available.

Information on likely routes of exposure: Not available

Potential acute health effects:

Eye contact: Causes eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: May be irritating to mouth, throat and stomach.



Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact: Adverse symptoms may include the following: Irritation, watering, redness
Inhalation: No specific data
Skin contact: No specific data
Ingestion: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure:

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects: Mixture. Not fully tested.

General: No known significant effects or critical hazards.
Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Components	Result	Species	Exposure
Di(2-ethylhexyl) phthalate	Acute LC50 690 µg/l Fresh water	Fish-Channel catfish	96 h
	Acute LC50 32,900 µg/l Fresh water	Fish-Largemouth bass	96 h
	Acute LC50 139,500 µg/l Fresh water	Fish-Rainbow trout	96 h
		Donaldson trout	
	Acute LC50 42,100 µg/l Fresh water	Fish-Largemouth bass	96 h
	Acute LC50 6,180 µg/l Fresh water	Fish-Goldfish	
	Acute LC50 11,000 µg/l Fresh water	Aquatic invertebrates,	48 h
		Water flea	
	Acute EC50 133 µg/l Fresh water	Aquatic invertebrates,	48 h
		Water flea	
	Acute EC50 2 mg/l Fresh water	Aquatic invertebrates,	48 h
	Acute EC50 31,000,000 µg/l Marine water	Aquatic invertebrates,	48 h
		Dinoflagellate	
	Chronic NOEC 598.2 µg/l Fresh water	Fish-Rainbow trout	90 d
Donaldson trout			
Chronic NOEC 502 µg/l Fresh water	Fish-Rainbow trout	49 d	



Chronic NOEC 502 µg/l Fresh water	Donaldson trout	
	Fish-Rainbow trout	42 d
Chronic NOEC 502 µg/l Fresh water	Donaldson trout	
	Fish-Rainbow trout	90 d
Chronic NOEC 77 µg/l Fresh water	Donaldson trout	
	Aquatic invertebrates,	21 d
	Water flea	
Chronic NOEC 0.064 mg/l Fresh water	Aquatic invertebrates,	21 d
	Water flea	

Persistence and degradability: Not available.

Bioaccumulative potential:

<u>Components</u>	<u>LogPow</u>	<u>BCF</u>	<u>Potential</u>
Di(2-ethylhexyl) phthalate	7.6	1,380.00	High

Mobility in soil: No data available

Other adverse effects: No known significant effects or critical hazards.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States-RCRA Acute hazardous waste "P" List: Not listed

United States-RCRA Toxic hazardous waste "U" List: Listed

<u>Components</u>	<u>CAS No.</u>	<u>Status</u>
Di(2-ethylhexyl) phthalate	117-81-7	Listed

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT Classification: Environmentally hazardous substances, liquid, n.o.s., (Diethylhexyl phthalate), 9, UN3082, III, RQ



SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: All chemical components are listed on or exempt from the TSCA inventory.

SARA Sections 311 & 312 Superfund Amendments & Reauthorization Act of 1986 Title III:

Chronic health hazard

SARA 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 40 CFR 372:

Di(2-ethylhexyl)phthalate 117-81-7

California Proposition 65:

WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16 - OTHER INFORMATION

Issue date: 05-11-2015

Version #: 01

Revision Information: GHS Format

Disclaimer: The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.

Harwick Standard Distribution Corporation

www.harwickstandard.com