



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: POLYCIZER® DUP-E

Chemical Name: 1,2-Benzenedicarboxylic acid, diundecyl 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

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

Classification of the Substance or Mixture:

Serious Eye Damage/Eye Irritation, Category 2B

GHS Label Elements:

Hazard symbol: None
Signal word: Warning

Hazard Statements:

Causes eye irritation.

Precautionary Statements:

Prevention: Wear eye or face protection. Wash hands thoroughly after handling.

Response: 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.

Storage: Not applicable.

Disposal: Not applicable.



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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture:

Components	Chemical Identity	CAS Number	Weight%
	Diundecyl Phthalate	3648-20-2	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.

Occupational exposure limits, if available, are listed in Section 8.

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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Rinse out mouth with water. Remove person to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

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 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 chemical 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. 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



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: 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:	Light yellow liquid
Odor:	Not available
pH:	Not available
Boiling Point/Range:	Not available
Melting Point/Range:	Not available
Flash Point (°C):	Not available
Flammable/Explosion Limits:	Not available
Vapor Pressure:	Not available
Solubility:	Not available
Partition Coefficient: (n-octanol/water)	4.95
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: Mixture. Not fully tested.

Irritation/Corrosion:

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
Diundecyl phthalate	Rabbit	Eyes-Mild irritant

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: Mixture. Not fully tested.

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 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.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Components	Result	Species	Exposure
Diundecyl phthalate	Acute EC50 12 mg/l Fresh water	Aquatic invertebrates, Water flea	48 h
	Acute EC50 15 mg/l Fresh water	Aquatic invertebrates, Water flea	48 h
	Chronic NOEC 59 µg/l Fresh water	Aquatic invertebrates, Water flea	21d
	Chronic NOEC 7.6 µg/l Fresh water	Aquatic invertebrates, Water flea	21d



Persistence and degradability: Not available.

Bioaccumulative potential:

<u>Components</u>	<u>LogPow</u>	<u>BCF</u>	<u>Potential</u>
Diundecyl phthalate		21.40	Low
Polycizer DUP-E	4.95		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: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT Classification: Not DOT regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

United States TSCA Inventory: All components are listed or exempt.

SARA 311/312: Classification: Immediate (acute) health hazard.

SARA 313: This product does not contain a chemical listed at or above de minimis concentrations 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.



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California Proposition 65: This product does not contain any chemical known to the State of California to cause cancer, birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65.

SECTION 16 - OTHER INFORMATION

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Revision Information: GHS Format

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