



**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT IDENTIFIER: POLYCIZER® DHIN**

**Chemical Name:** 1,2-cyclohexanedicarboxylic acid, diisononyl ester, branched and linear: DHIN

**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](http://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

**HMIS Rating:** HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

**Substance/mixture:**



Components Chemical Identity	CAS Number	Weight%
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1,2-cyclohexanedicarboxylic acid, diisononyl ester, branched and linear	474919-59-0	>99.5
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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 water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion:** Rinse out mouth with water and give plenty of water to dilute product. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention .

#### Most important symptoms/effects, acute and delayed:

##### Potential acute health effects:

**Eye contact:** No known significant effects or critical hazards.  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** No known significant effects or critical hazards.  
**Ingestion:** No known significant effects or critical hazards.

##### 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:

#### SECTION 5 – FIRE FIGHTING MEASURES

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

**Unsuitable extinguishing method:** None known.



**Specific hazards arising from chemical:** In a fire or if heated, the product is combustible. Cool endangered containers with water-spray.

**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. 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:** 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

**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

<b>Appearance:</b>	Colorless liquid
<b>Odor:</b>	Slight
<b>pH:</b>	~7
<b>Boiling Point/Range:</b>	464-482°F
<b>Melting Point/Range:</b>	Not available



<b>Flash Point (°C):</b>	224°C (435°F)
<b>Flammable/Explosion Limits:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Solubility:</b>	<0.02 mg/l
<b>Partition Coefficient: (n-octanol/water)</b>	Not available
<b>Auto-ignition Temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Density:</b>	Not available
<b>Explosive Properties:</b>	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

### **Basis for Assessment:**

Information given is based on producer's own tests and knowledge of the components and toxicology of similar products.

### **Acute Toxicity**

**Assessment of acute toxicity:** Virtually nontoxic after single ingestion. Virtually nontoxic after a single skin contact.

<b>LD50 Oral</b>	Rat	>5,000 mg/kg
<b>LD50 Dermal</b>	Rat	>2,000 mg/kg

### **Assessment other acute effects:**

Assessment of STOT single: Based on the available information there is no specific target organ toxicity to be expected after a single exposure.



**Irritation/Corrosion:**

Assessment of irritating effects: May cause slight irritation to the skin. Not irritating to the eye.

**Skin:** Species: rabbit  
Result: non-irritant

**Eyes:** Species: rabbit  
Result: non-irritant

**Sensitization:**

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

**Chronic Toxicity/Effects**

**Genetic toxicity:**

No mutagenic effects observed in studies with mammals or microorganisms.

**Carcinogenicity:**

No carcinogenic effects observed in studies with mammals.

**Reproductive toxicity:**

No reproductive impairment notes.

**Teratogenicity:**

Assessment of teratogenicity: No indications of a developmental toxic/teratogenic effect were seen in animal studies.

**Symptoms of Exposure**

No significant symptoms are expected due to the non-classification of the product.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Basis for Assessment:**

Information given is based on producer's own tests and knowledge of the components and toxicology of similar products.

**Ecotoxicity:**

Acute toxicity to fish:	LC50: > 100 mg/l
Acute toxicity to aquatic invertebrates:	EC50 (48 hrs): > 100 mg/l
Acute toxicity to aquatic plants:	EC50 (72 hrs): > 100 mg/l
Toxicity to soil dwelling organisms:	LC50 (14D): > 1000 mg/l

**Persistence and degradability:** Readily biodegradable

**Bioaccumulative potential:** Accumulation in organisms is not to be expected.



**Mobility in soil:** Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

**Additional information:** Do not release untreated into natural waters.

#### SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste disposal instructions:** Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in accordance with national, state and local regulations.

**Container disposal instructions:** Dispose of in a licensed facility.

#### SECTION 14 - TRANSPORTATION INFORMATION

**U.S. DOT Classification:** Not DOT regulated.

#### SECTION 15 - REGULATORY INFORMATION

**U.S.:**

**TSCA Inventory Status:**

Chemical components are listed on the TSCA inventory.

**SARA Sections 311 & 312**

Superfund Amendments & Reauthorization Act of 1986 Title III: None

#### SECTION 16 - OTHER INFORMATION

**Issue date:** 05-11-2015

**Version #:** 01

**Revision Information:** GHS Format

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