



**HARWICK**  
S T A N D A R D

*Safety Data Sheet*  
**POLYCIZER<sup>®</sup> DBS**  
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**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT IDENTIFIER: POLYCIZER<sup>®</sup> DBS**

**Other means of identification**

**Chemical Name:** Dibutyl sebacate, di-n-butyl ester

**Synonyms:** DBS

**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:** None

**Precautionary Statements:**

**Prevention:** None

**Response:** None

**Storage:** None

**Disposal:** None

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

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

**Substance/mixture:**

**Components Chemical Identity**                      **CAS Number**                      **Weight%**

Dibutyl Sebacate	109-43-3	>98
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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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin contact:** Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and large amounts of water. Get medical attention if symptoms occur.

**Ingestion:** Get immediate medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel.

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

##### Potential acute health effects:

<b>Eye contact:</b>	No known significant effects or critical hazards.
<b>Inhalation:</b>	No known significant effects or critical hazards.
<b>Skin contact:</b>	No known significant effects or critical hazards.
<b>Ingestion:</b>	No known significant effects or critical hazards.

##### Over-exposure signs/symptoms:

<b>Eye contact:</b>	No specific data
<b>Inhalation:</b>	No specific data
<b>Skin contact:</b>	No specific data
<b>Ingestion:</b>	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 (CO<sub>2</sub>)

**Unsuitable extinguishing method:** None known.



**Specific hazards arising from chemical:** Containers may explode in the heat of a fire. Vapors are heavier than air and can spread along the ground and collect in low or confined areas.

**Hazardous thermal decomposition products:**

Decomposition products may include the following materials:

- Carbon dioxide
- Carbon monoxide

**Special firefighting equipment and precautions for firefighters:** Wear NIOSH approved self-contained breathing apparatus. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water or foam may cause frothing.

## 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. Contain in diked area. 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.

## SECTION 7 - HANDLING AND STORAGE



**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid eye contact and inhalation. Use with adequate ventilation. 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 4 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:** Not available

**Appropriate engineering controls:** Use with adequate ventilation. The use of local mechanical ventilation is recommended whenever this product is used in a confined space or heated above ambient temperature.

**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 goggles or 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 MSHA/NIOSH approved mist-type respirator whenever this product is used in a confined space or heated above ambient temperature. 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:** During application, adequate ventilation must be approved. 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

<b>Appearance:</b>	Clear, oily liquid
<b>Physical State:</b>	Liquid
<b>Form:</b>	Liquid
<b>Odor:</b>	Mild
<b>pH:</b>	Not available
<b>Melting Point/Freezing Point:</b>	-11°C (Pour point)
<b>Initial Boiling Point and Boiling Range:</b>	186-194°C @4 mm Hg
<b>Flash Point (°C):</b>	176°C (348°F)
<b>Evaporation Rate:</b>	<1 (Butyl Acetate=1)
<b>Flammability (solid/gas):</b>	Not available
<b>Flammable/Explosion Limits:</b>	Not available
<b>Flammability limit-lower (%):</b>	Not established
<b>Flammability limit-upper (%):</b>	Not established
<b>Explosive limit-lower (%):</b>	Not established
<b>Explosive limit-upper (%):</b>	Not established
<b>Vapor Pressure:</b>	10.8 mm Hg @180°C
<b>Vapor Density:</b>	10.8 (Air=1)
<b>Relative Density/Specific Gravity:</b>	0.936 @20°C (Water=1)
<b>Solubility (water):</b>	<0.1%
<b>Partition Coefficient: (n-octanol/water)</b>	Not available
<b>Auto-ignition Temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Other information:</b>	
<b>Molecular Weight:</b>	314.52
<b>Solubility (other):</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:** Avoid contact with incompatible materials.

**Incompatible materials:** Strong oxidizing materials.

**Hazardous decomposition products:** Irritating and toxic fumes and gases. Combustion will produce carbon monoxide and carbon dioxide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure/Potential acute health effects

**Ingestion:** Based on available data, classification criteria are not met.  
**Inhalation:** No data available  
**Skin Contact:** No data available  
**Eye Contact:** Based on available data, classification criteria are not met.

**Symptoms related to the physical, chemical and toxicological characteristics:** No specific data.

### Acute Toxicity:

#### Dibutyl Sebacate (CAS No. 109-43-3)

**Oral:** LD50 (Mouse)=19.500 mg/kg  
LD50 (Rat)=16.000 mg/kg

#### **Inhalation**

LC50 (Rat)=>5.4 mg/m<sup>3</sup>, 4 hours

### Irritation/Corrosion:

**Skin:** Based on available data, classification criteria are not met.  
**Eyes:** Based on available data, classification criteria are not met.  
**Respiratory:** No data available

Eye irritancy test: Result: Not irritating (Rabbit)

Skin irritancy test: Result: Not irritating (Rabbit)

### Sensitization:

**Skin:** No data available  
**Respiratory:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available  
Material is not considered to be a carcinogen by IARC, NTP or OSHA.

**Reproductive toxicity:** Based on available data, classification criteria are not met.  
418 gm/Kg (Oral)-Rat TDLo 10 weeks male: Pre pregnancy/10 days



**Teratogenicity:** No data available

**Specific target organ toxicity-single exposure:**

Based on available data, classification criteria are not met.

**Specific target organ toxicity-repeated exposure:**

Based on available data, classification criteria are not met.

**Aspiration hazard:** No data available

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

**Short term exposure:**

**Potential immediate effects:** No data available

**Potential delayed effects:** No data available

**Long term exposure:**

**Potential immediate effects:** No data available

**Potential delayed effects:** No data available

**Potential chronic health effects:** No data available

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Dibutyl Sebacate (CAS No. 109-43-3)  
LC50 (Fish-Danio rerio) + >10000 mg/l, 96 hours

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** No data available

**Other adverse effects:** No data available

**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 in accordance with all applicable regulations. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



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**Waste from residues/unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residue. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. This material and its container must be disposed of in a safe way.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

#### SECTION 14 - TRANSPORTATION INFORMATION

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

#### SECTION 15 - REGULATORY INFORMATION

**U.S.:**

**United States TSCA Inventory:** Listed on TSCA Inventory.

**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.

**California Proposition 65:** Not listed.

#### SECTION 16 - OTHER INFORMATION

**Issue date:** 03-11-2016

**Version #:** 01

**Revision Information:** GHS Format

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