



Safety Data Sheet (SDS)

Revision / Review Date: 6/1/15

1. Chemical Product and Company Identification

Product Name:	Merrox BCA DLD
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Di (butoxyethoxyethyl) Adipate/ Glycol Ether Compounds
Molecular Formula:	C22H42O8
Molecular Weight via GPC, Mn:	434.56 g/mol
Product Use:	Plasticizer
OSHA Status:	Non-hazardous
CAS No:	141-17-3
EC No:	205-465-5

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

<u>Warning:</u>	Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3
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<u>GHS Hazard Phrases:</u>	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
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<u>GHS Precaution Phrases:</u>	P261: Avoid breathing dust, fumes, gas, mist, vapors or spray. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, protective clothing, and eye/face protection.
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<u>GHS Response Phrases:</u>	P302+352: IF ON SKIN: Wash with plenty of soap and water. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
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do. Continue rinsing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P321: Specific treatments see section 4.
P332+313: If skin irritation occurs, get medical advice or attention.
P337+313: If eye irritation persists, get medical advice or attention.
P362: Take off contaminated clothing and wash before re-use.

GHS Storage and Disposal Phrases:

P403+233: Store container tightly closed in well-ventilated place.
P405: Store locked up.
P501: Dispose of contents and containers per section 13.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3); however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1) (IARC, Vol. : 68 (1997) (p. 41)). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form.

Primary Routes of Entry:

Eyes, skin and/or inhalation.

Medical Conditions Generally Aggravated by Exposure:

Not available.

Eye Contact:

May cause eye irritation.

Skin Contact:

May be harmful if absorbed through the skin. May cause skin irritation.

Ingestion:

May be harmful if swallowed.

Inhalation:

May be harmful if inhaled. May cause respiratory tract irritation. Material may be irritating to mucous membranes and upper respiratory tract.

NFPA Rating:

Not available.

HMIS Hazard Ratings:

Not available.

HMIS limitation statement:

The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.

Principal Hazardous Components:

Precipitated silica, CAS No. 112926-00-8
OSHA PEL= 80 mg/m³ (% SiO₂)
ACGIH TLV= 10 mg/m³

3. Composition / Information on Ingredients

Weight Percent / Typical

Component Identity

CAS Registry Number

HB Chemical 1665 Enterprise Parkway Twinsburg, Ohio 44087

Phone 330-920-8023 Fax 330-920-0971

www.hbchemical.com

65-73%	Dibutoxyethoxyethyl Adipate	141-17-3
25 -32 %	Precipitated silica	112926-00-8

4. First Aid Measures

<u>Inhalation:</u>	If breathing becomes difficult, call a physician.
<u>Eyes:</u>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if irritation persists.
<u>Skin:</u>	In case of contact, immediately wash skin with soap and copious amounts of water
<u>Ingestion:</u>	Never give anything by mouth to an unconscious person. Rinse mouth with water. If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam.
<u>Special Fire Fighting Procedures:</u>	Wear self-contained breathing apparatus for firefighting if necessary. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<u>Hazardous Combustion Products:</u>	None known.
<u>Unusual fire and explosion hazards:</u>	None known.

6. Accidental Release Measures

<u>Steps to be taken in case material is spilled:</u>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. Keep in suitable, closed containers for disposal.
<u>Environmental Disposal Information:</u>	Do not let product enter drains.
<u>Waste Disposal:</u>	Reclaim or dispose of in accordance with local, state, and federal regulations.

7. Handling and Storage

Precautions to be taken in handling:

Normal measures for preventive fire protection. Avoid inhalation. Avoid contact with eyes, skin, and clothing.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Empty Containers:

Not available.

8. Exposure Controls / Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
141-17-3	Hexanedioic acid			
112926-00-8	Precipitated silica	PEL: 80 mg/m3(%SiO2)	TLV: 10 mg/m3	

Exposure Controls:

Not available.

Respiratory Protection:

For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Ventilation:

Ventilation rates should be based upon usage conditions.

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection:

Chemical safety glasses.

Skin and Body Protection:

Wear impervious clothing.

Other Precautions:

Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.

Decontamination Facilities:

Safety shower and eye bath. Mechanical exhaust required.

9. Physical and Chemical Properties

Physical Form:

Solid

Appearance & Odor:

White Powder

Specific Gravity:

01.18± .10

Softening Point, R&B:

Not available.

Solubility in Water:

Not available.

Flash Point, TAG CC F:

Not available.

<u>Percent Volatiles (by weight):</u>	Not available.
<u>Evaporation Rate (Water ~ l):</u>	Not available.
<u>Vapor Pressure (mm Hg):</u>	Not available.
<u>Vapor Density (Air ~ l):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	Not available.
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.
<u>Relative density:</u>	Not available.
<u>Melting point:</u>	Not available.

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Material reacts with strong oxidizing agents and strong acid.
<u>Conditions to Avoid:</u>	Not available.
<u>Hazardous Polymerization:</u>	Hazardous polymerization will not occur.
<u>Hazardous decomposition:</u>	Formed under fire conditions. Carbon oxides.

11. Toxicological Information

<u>IARC:</u>	No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<u>ACGIH:</u>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<u>NTP:</u>	No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<u>OSHA:</u>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. Ecological Information

No data available.

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

D.O.T. Shipping Name: Not regulated.

Air - ICAO (international Civil Aviation Organization): Not regulated.

Sea - IMDG (International Maritime Dangerous Goods): Not regulated.

TDG Shipping Name: Not regulated.

ADR/RID Shipping Name: Not regulated.

15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

CAS #	Components (Chemical Name)	Section 302 (EHS)	Section 304 RQ	Section 313 (TRI)
141-17-3	Hexanedioic acid	No	No	Yes-Cat. N230
112926-00-8	Precipitated silica	No	No	No

US EPA or State Lists:

CAS #	Components (Chemical Name)	Other US EPA or State Lists
141-17-3	Hexanedioic acid	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - c; SC TAP: Yes - Cat.; WI Air: Yes - Cat.
112926-00-8	Precipitated silica	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 3510; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No

International Regulatory List:

CAS #	Components (Chemical Name)	International Regulatory Lists
141-17-3	Hexanedioic acid	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: No; Australia ICS: Yes; New Zealand IOC: No; China IECSC: Yes; Japan ENCS: Yes - (2)-2565; Japan ISHL: No; Korea ECL: Yes - KE-18678; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (R), (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No
112926-00-8	Precipitated silica	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: No; Japan ISHL: No; Korea ECL: Yes - KE-32733; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 849; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - (P); Kyoto GHG: No; Rotterdam: No; Stockholm: No

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.