



## Safety Data Sheet (SDS)

Revision / Review Date: 1/20/15

### 1. Chemical Product and Company Identification

Product Name:	Merrox BCA
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>	Not available.
<u>Signs and Symptoms of Exposure:</u>	Not available.
<u>Primary Routes of Entry:</u>	Not available.
<u>Medical Conditions Generally Aggravated by Exposure:</u>	Not available.
<u>Eye Contact:</u>	May cause slight eye irritation of susceptible persons.
<u>Skin Contact:</u>	Repeated or prolonged skin contact may cause skin irritation.
<u>Ingestion:</u>	Substance may be harmful if swallowed. May irritate mouth, throat and stomach.
<u>Inhalation:</u>	May cause dizziness.
<u>NFPA Rating:</u>	Health-0, Fire-0, Reactivity-0
<u>HMIS Hazard Ratings:</u>	Health- 1, Flammability-1, Reactivity – 0
<u>HMIS limitation statement:</u>	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.

### **3. Composition / Information on Ingredients**

Weight Percent / Typical	Component Identity	CAS Registry Number
100%	Dibutoxyethoxyethyl Adipate	141-17-3

### **4. First Aid Measures**

<u>Inhalation:</u>	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
<u>Eyes:</u>	Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, consult a physician. Flush eyes with water as a precaution.
<u>Skin:</u>	Wash off with soap and plenty of water.
<u>Ingestion:</u>	Do not induce vomiting. Seek medical attention. If individual is drowsy, do not give anything by mouth.

### **5. Fire-Fighting Measures**

<u>Suitable Extinguishing Media:</u>	Water Spray, Dry Chemical, Carbon Dioxide CO <sub>2</sub> , Foam.
<u>Special Fire Fighting Procedures:</u>	Wear self-contained breathing apparatus for firefighting if necessary. A MSHA/NIOSH approved self-contained breathing apparatus should be worn. Use water spray to cool fire-exposed containers.
<u>Hazardous Combustion Products:</u>	Carbon oxides.
<u>Unusual fire and explosion hazards:</u>	Solid streams of water directed at burning liquid may cause frothing.

### **6. Accidental Release Measures**

<u>Steps to be taken in case material is spilled:</u>	Keep in suitable, closed containers for disposal. Avoid breathing vapors, mist or gas. Dike and contain the spill with inert material (i.e., sand, earth, sawdust) and transfer liquid and solid diking material to separate containers for recovery or disposal. Wash floor area with hot water solution. Remove contaminated clothing and wash before reuse. Wash affected skin areas with soap and water. Keep spills out of all sewers and bodies of water.
<u>Environmental Disposal Information:</u>	Do not let product enter drains.

Waste Disposal:

Reclaim or dispose of in accordance with local, state, and federal regulations.

**7. Handling and Storage**

Precautions to be taken in handling:

Any use of this product in an elevated temperature process should be evaluated to establish and maintain safe operating procedures.

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**

Exposure Controls:

Not available.

Respiratory Protection:

Use a NIOSH approved respirator when exposure to mists or vapors is anticipated.

Ventilation:

Ventilation rates should be based upon usage conditions.

Hand protection:

Wear gloves.

Engineering Measures:

For normal operation, local exhaust ventilation should suffice. Direct exhaust when material becomes heated and vapors are given off.

Eye Protection:

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:

Eye bath, washing facilities (sinks / showers).

**9. Physical and Chemical Properties**

Physical Form:

Oily liquid

Appearance & Odor:

Colorless / alcohol odor

Specific Gravity:

1.0123

Softening Point, R&B:

Not available.

Solubility in Water:

Not available.

Flash Point, TAG CC F:

> 113.00 °C (> 235.40 °F) - closed cup

Percent Volatiles (by weight):

Not available.

Evaporation Rate (Water ~ I):

Not available.

<u>Vapor Pressure ( mm Hg):</u>	Not available.
<u>Vapor Density (Air ~ 1):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	491.5 °C at 760 mmHg
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.
<u>Relative density:</u>	1.01 g/cm <sup>3</sup> at 25 °C (77 °F)
<u>Melting point:</u>	-11 °C (12 °F) - lit.

### **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.
<u>Conditions to Avoid:</u>	Not available.
<u>Hazardous Polymerization:</u>	Hazardous polymerization will not occur.

### **11. Toxicological Information**

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

<u>Primary Skin Irritation:</u>	0.65 (PII). No abnormal clinical signs for duration of study.
<u>Primary Dermal Irritation (male/female rabbits):</u>	Minimal.
<u>Primary Ocular Irritation:</u>	Minimal; with reversibility after 72 hours.
<u>Oral:</u>	LD50 (Rat): >5.0 g/kg; elicited toxic effects. LD50 (Rat) 6,000 mg/kg

### **12. Ecological Information**

<u>24 hr. EC50 (Daphnia magna):</u>	680 mg/L.
<u>48 hr. EC50 (Daphnia magna):</u>	420 mg/L.
<u>48 hr. NOEC:</u>	220 mg/L.
<u>96 hr. LC50 for Rainbow Trout:</u>	21 mg/L.
<u>96 hr. NOEC:</u>	13 mg/L.

### **13. Disposal Considerations**

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

### **14. Transport Information**

<u>D.O.T. Shipping Name:</u>	Not dangerous goods.
<u>Air - ICAO (international Civil Aviation Organization):</u>	Not dangerous goods.
<u>Sea - IMDG (International Maritime Dangerous Goods):</u>	Not dangerous goods.

## **15. Regulatory Information**

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

<u>Australian Inventory of Chemical Substances (AICS):</u>	This product is listed on the AICS of Australia.
<u>China (IECSC):</u>	This product is listed on the IECSC of China.
<u>European Inventory of Existing Chemical Substances (EINECS):</u>	This product is listed on the EINECS of Europe. Registration #205-465-5.
<u>Korean Existing Chemicals List (ECL):</u>	This product is listed on the ECL Inventory of Korea.
<u>Japanese Inventory of Existing &amp; New Chemical Substances (ENCS):</u>	This product is listed on the ENCS of Japan.
<u>Philippines (PICCS):</u>	This product is listed on the PICCS of the Philippines.
<u>SARA 302 Components:</u>	No chemicals in this material need to be reported.
<u>SARA 313 Components:</u>	No chemical components in this material need to be reported.
<u>SARA 311/312 Hazards:</u>	No SARA Hazards.
<u>California Prop. 65 Components:</u>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
<u>Massachusetts Right To Know Components:</u>	No components are subject to the Massachusetts RTK.
<u>New Jersey RTK Label Information:</u>	Bis(2-(2-butoxyethoxy)ethyl) adipate, CAS-No. 141-17-3
<u>Pennsylvania RTK Label Information:</u>	Bis(2-(2-butoxyethoxy)ethyl) adipate, CAS-No. 141-17-3

## **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.