



Safety Data Sheet (SDS)

Revision / Review Date: 1/22/15

1. Chemical Product and Company Identification

Product Name:	MERROX 4206
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(butoxyethyl) Adipate/Esters
Generic name:	DBEA, Adipic Acid Bis(2-butoxyethyl) Ester , Adipic Acid Di(2-butoxyethyl) Ester
Molecular Formula:	C18H34O6
Molecular Weight via GPC, Mn:	346.52
Product Use:	Plasticizer
OSHA Status:	Non-hazardous
CAS No:	141-18-4

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 eye irritation.
<u>Skin Contact:</u>	Prolonged or repeated skin contact may cause irritation.
<u>Ingestion:</u>	Can cause nausea, vomiting, pain and general upset stomach conditions.
<u>Inhalation:</u>	Can be irritating to the eyes, nose and respiratory tract following prolonged exposure.
<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	141-18-4

4. First Aid Measures

<u>Inhalation:</u>	Remove to fresh air; give artificial respiration or oxygen if necessary.
<u>Eyes:</u>	Flush eyes with water for 15 minutes. Call a physician if irritation develops.
<u>Skin:</u>	Remove contaminated clothing and wash skin with soap and water. If in contact with hot product, treat as a burn.
<u>Ingestion:</u>	Give 1-2 large glasses of water or milk. Induce vomiting by touching finger to back of throat. Never give anything by mouth to unconscious person. Seek medical attention.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Use Chemical foam, CO2, Dry Chemical, water fog.
<u>Special Fire Fighting Procedures:</u>	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment. Full eye protection and protective clothing are required for all indoor/outdoor fires and spills. Treat as burning oil. Keep drums as cool as possible to avoid expansion, explosions, and splattering.
<u>Hazardous Combustion Products:</u>	This product will decompose under extreme temperatures forming oxides of carbon.
<u>Unusual fire and explosion hazards:</u>	Not available.

6. Accidental Release Measures

<u>Steps to be taken in case material is spilled:</u>	Wear appropriate protective clothing, gloves and equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Eliminate all sources of ignition. Contain
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spill and absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Spills in excess of the RQ must be reported to the local emergency response organizations. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Environmental Disposal Information:

Prevent run-off into sewers or natural waterways.

Waste Disposal:

All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

7. Handling and Storage

Empty Containers:

Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations.

Precautions to be taken in handling:

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Wash hands and face thoroughly after handling. Use a ventilation, local exhaust if vapor or aerosol will be generated. Avoid contact with skin, eyes and clothing. Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

Storage:

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Controls:

Not available.

Respiratory Protection:

Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging.

Ventilation:

Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

Hand protection:

Wear gloves.

Eye Protection:

Safety glasses. A face-shield, if the situation requires.

Skin and Body Protection:

Protective clothing. Protective boots and apron if the situation requires.

<u>Other Precautions:</u>	Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.
<u>Decontamination Facilities:</u>	Eye bath, washing facilities (sinks / showers).

9. Physical and Chemical Properties

<u>Physical Form:</u>	Liquid
<u>Appearance & Odor:</u>	Clear colorless-slightly pale yellow
<u>Specific Gravity:</u>	Not available.
<u>Softening Point, R&B:</u>	Not available.
<u>Solubility in Water:</u>	Not available.
<u>Flash Point, TAG CC F:</u>	182°C (360°F) COC
<u>Percent Volatiles (by weight):</u>	Not available.
<u>Evaporation Rate (Water ~ 1):</u>	< 1 (butyl acetate=1)
<u>Vapor Pressure (mm Hg):</u>	Not available.
<u>Vapor Density (Air ~ 1):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	217°C/1.5kPa
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.
<u>Refractive Index:</u>	1.4415 (25°C)
<u>Melting point/freezing point:</u>	-34°C
<u>Viscosity cPs:</u>	(25°C) = 20

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 bases.
<u>Conditions to Avoid:</u>	Avoid extreme heat.
<u>Hazardous Polymerization:</u>	Hazardous polymerization will not occur.
<u>Hazardous Decomposition Products:</u>	Carbon monoxide, Carbon dioxide. This product decomposes under high temperature and hydrolyses in humid conditions.

11. Toxicological Information

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

12. Ecological Information

No information for environmental effects.

13. Disposal Considerations

Incineration by a permitted hazardous waste facility in accordance with all regulatory requirements is the preferred method of disposal. Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations.

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.

15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

New Jersey RTK Label Information:

Dibutoxyethoxyethyl Adipate, CAS No. 141-18-4

Pennsylvania RTK Label Information:

Dibutoxyethoxyethyl Adipate, CAS No. 141-18-4

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.