



HARWICK
S T A N D A R D

Safety Data Sheet
MERROL[®] 4206 (DBEA)
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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: MERROL[®] 4206 (DBEA)

Chemical Name: Di(butoxyethyl) adipate

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

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: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Hazard(s) not otherwise classified (HNOC): Prolonged direct contact with this product may cause eye and skin irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

<u>Components Chemical Identity</u>	<u>CAS Number</u>
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Di(butoxyethyl) adipate	141-18-4
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. Get medical attention if symptoms occur.

Inhalation: Remove person to fresh air. If difficulty in breathing, get medical attention.

Skin contact: Flush contaminated skin with plenty of water, soap or other non-irritating cleansing agent. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: If swallowed, remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give water to drink repeatedly. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed:

Please see hazard statements in Section 2 if given and information in this section.

Indication of immediate medical attention and special treatment needed:

Please see precautionary statements in Section 2 as well as first aid information in this section if stated.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray, foam, dry powder or carbon dioxide (CO₂)

Unsuitable extinguishing method: Not determined.

Specific hazards arising from chemical: Not determined.

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.

Additional information: Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.



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. 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. 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. Close container immediately after use. Avoid excessive heat. Do not allow to dry out. 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.



General protective measures: Do not breathe vapor/spray. Avoid contact with eyes and skin. Immediately remove all contaminated clothing.

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. In the event of contamination, change protective gloves immediately. Avoid skin contact with the wetted surfaces of the protective gloves.

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: Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking, 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

Appearance:	Colorless to slightly yellow liquid
Odor:	Slight
pH:	Not determined
Boiling Point/Range:	Not determined
Melting Point/Range:	Not determined
Flash Point (°C):	182°C (360°F)
Ignition Temperature:	Not determined
Flammability (solid gas):	Not determined
Upper/Lower Explosion (flammable) Limits:	Lower: Not determined Upper: Not determined
Vapor Pressure:	Not determined



Density:	0.995 g/cm ³
Bulk Density:	Not determined
Solubility:	Insoluble in water
Partition Coefficient: (n-octanol/water)	Not determined
Viscosity:	Not determined

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No hazardous reactions when stored and handled according to prescribed instructions.

Chemical stability: No thermal decomposition when stored and handled correctly.

Possibility of hazardous reactions: No hazardous reaction when used as directed.

Conditions to avoid: None listed.

Incompatible materials: None listed.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD ₅₀ (Rat) = >2,000 mg/kg
Acute Inhalation Toxicity:	Not determined.
Acute Dermal Toxicity:	Not determined.

Irritation/Corrosion:	
Skin:	Not determined
Eyes:	Not determined

Sensitization:	
Skin:	Not determined
Respiratory:	Not determined

Mutagenicity: Not determined

Teratogenicity: Not necessary

Carcinogenicity: Not necessary



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Carcinogen status: IARC: No NTP: No OSHA: No ACGIH: No Cal Prop 65: No

Reproductive toxicity: Not determined

Specific target organ toxicity-single exposure: Not determined

Specific target organ toxicity-repeated exposure: Not determined

Aspiration hazard: Not determined

Information on likely routes of exposure:

Primary route of exposure:

Inhalation: Yes

Skin Contact: Yes

Skin Absorption: No

Eye Contact: Yes

Ingestion: Yes

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish Toxicity: Not determined

Daphnia Toxicity: Not determined

Algae Toxicity: Not determined

Bacteria Toxicity: Not determined

Persistence and degradability: Not determined

Bioaccumulative potential: Not determined

Mobility in soil: Not determined

Other adverse effects: Not determined

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. If utilization or recycling of the product is not possible, it should be disposed of according to local regulations and laws. Soiled, empty containers are to be treated in the same way as the contents. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT Classification: Not DOT regulated.



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SECTION 15 - REGULATORY INFORMATION

U.S.:

United States TSCA Inventory: Components of this product are listed on the 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 Prop 65: This product does not contain any chemical known to the State of California to cause cancer, birth defects or other reproductive harm in concentrations that require a warning notice under CA's Prop 65.

SECTION 16 - OTHER INFORMATION

Issue date: 05-28-2015

Revision date: 07-08-2015

Version #: 02

Revision Information: GHS Format

HMIS Rating: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0

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