



# Safety Data Sheet

Issue Date 01-Jan-2002

Revision Date: 30-Jun-2013

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Di Octyl maleate

### Other means of identification

**SDS #** NC-011

### Recommended use of the chemical and restrictions on use

**Recommended Use** Maleate Plasticizers.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Neuchem Inc.  
2062 Union Street, Suite 300  
San Francisco, CA 94123 USA  
www.neuchem.com

### Emergency Telephone Number

**Company Phone Number** Phone: 415-345-9353  
Fax: 415-345-9350  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America) Account No. 100534

## 2. HAZARDS IDENTIFICATION

### Classification

Specific target organ toxicity (repeated exposure)	Category 2
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### Signal Word

**Warning**

### Hazard Statements

May cause damage to organs through prolonged or repeated exposure



**Appearance** Clear liquid

**Physical State** Liquid

**Odor** Characteristic

### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

### Precautionary Statements - Response

Get medical advice/attention if you feel unwell

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Bis(2 Ethylhexyl) Maleate	142-16-5	100

**4. FIRST-AID MEASURES****First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.
<b>Skin Contact</b>	In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Call a physician immediately.

**Most important symptoms and effects**

<b>Symptoms</b>	Inhalation: may include nasal discharge, hoarseness, coughing, chest pain and breathing difficulty.  Skin: redness or discoloration, swelling, itching. Burning or blistering of skin.  Eyes: eye irritation or burning sensation.  Ingestion: Essentially non-toxic; nausea, vomiting, loss of appetite gastrointestinal irritation and / or diarrhea.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Foam, Dry chemical, Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical**

Not determined.

**Hazardous Combustion Products** Under conditions of incomplete combustion, hazardous gases produced may consist of carbon monoxide and carbon dioxide (CO<sub>2</sub>). Combustion gases of organic materials must in principle be graded as inhalation poisons.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers/ tanks with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.
<b>For Emergency Responders</b>	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapors or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.
<b>Environmental Precautions</b>	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
<b>Methods for Clean-Up</b>	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

<b>Advice on Safe Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe vapors or spray mist.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials.
<b>Incompatible Materials</b>	Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** The following information is given as general guidance

**Appropriate engineering controls**

**Engineering Controls**

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches and grounded ducts) should be used in mechanical ventilation systems. Maintain eye wash fountain and quick-drench facilities in work area.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard.

**Skin and Body Protection**

Wear suitable protective clothing.

**Respiratory Protection**

Wear an appropriate NIOSH/MSHA approved respirator.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Characteristic
<b>Appearance</b>	Clear liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	Not determined		
<b>Melting Point/Freezing Point</b>	Not applicable		
<b>Boiling Point/Boiling Range</b>	209 °C / 408.2 °F	@ 10 mmHg	
<b>Flash Point</b>	185 °C / 365 °F		
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	Not determined		
<b>Upper Flammability Limits</b>	Not determined		
<b>Lower Flammability Limit</b>	Not determined		
<b>Vapor Pressure</b>	Not determined		
<b>Vapor Density</b>	Not determined		
<b>Specific Gravity</b>	0.9430-0.9436		
<b>Water Solubility</b>	Insoluble in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Autoignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not an explosive		
<b>Oxidizing Properties</b>	Not determined		

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Avoid heat, sparks, open flames and other ignition sources.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Eye Contact</b>	May cause temporary irritation on eye contact.
<b>Skin Contact</b>	May cause temporary irritation on skin contact.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	May cause discomfort if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bis(2 Ethyhexyl) Maleate 142-16-5	= 14 g/kg ( Rat )	= 15 mL/kg ( Rabbit ) = 14415 mg/kg ( Rabbit )	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bis(2 Ethyhexyl) Maleate 142-16-5		83: 48 h Leuciscus idus mg/L LC50 static		351: 24 h Daphnia magna mg/L EC50

**Persistence/Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Dispose of spilled materials in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured, processing, use or contamination may make this information inappropriate, inaccurate, or incomplete.

**Contaminated Packaging**

This handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restriction are complexed and may differ from federal regulations. This information is intended as an aid to proper handling and disposal. Final responsibility for handling and disposal is with the owner of the waste.

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**15. REGULATORY INFORMATION****International Inventories**

Not determined

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**SARA 313**

Not determined

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special Hazards</b> Not determined
<b>HMIS</b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Physical Hazards</b> Not determined	<b>Personal Protection</b> Not determined

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**