

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074594321

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

070504902 071141548 071157437 074594313 074594412 074594420

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: LANG DENTAL MFG. CO., INC.  
175 MESSNER DRIVE  
WHEELING, IL 60090  
U.S.A.

TELEPHONE: PRODUCT INFORMATION: (800) 222-5264 or (847) 215-6622

EMERGENCY CONTACT: INFOTRAC 24 HOURS CHEMICAL RESPONSE SYSTEM  
(800) 535-5053 or (352) 323-3500

PRODUCT: JET LIQUID - **ORTHO-JET**, ORTHO-JET BCA

PRODUCT NUMBERS: 1403, 1404, 1406, 1407, 148, 1409, 1412, 1412G, 1484, 1484EP, 1484LR, 1484U, 1493, 1493AS  
1303, 1304, 1306, 1307, 1308, 1309, 1323, 1334, B1303, B1304, B1306, B1323, B1334, B1356

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE:  
Methyl Methacrylate: CAS Number – 80-62-6 EINECS – 2012971

HAZARDOUS INGREDIENT (S):	%:	HAZARD SYMBOL:	R PHRASES:
Methyl Methacrylate	> 95	F, Xi	11;36/37/38;43
99-97-8 N,N-dimethyl-p-toluidine	< 2	T	23/24/25;33;52/53

### 3. HAZARDS IDENTIFICATION

Highly flammable.

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. High atmospheric concentrations may lead to irritation of the respiratory tract and anesthetic effects. Repeated and/or prolonged contact may cause dermatitis.

### 4. FIRST AID MEASURES

INHALATION: Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.

SKIN: Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.

EYE: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

INGESTION: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk immediately. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Obtain immediate medical attention.

CLOTHING: Remove contaminated clothing, wash thoroughly before reuse.

TREATMENT: Treat symptoms conventionally, after thorough decontamination.

### 5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD):	APPROX. FLAMMABLE LIMITS:	AUTOIGNITION TEMPERATURE:
11.5 °C (52.7 °F) (TCC)	LEL 2.12%, UEL 12.5%	421 °C (790 °F)
EXTINGUISHING MEDIA: Chemical foam, carbon dioxide, dry chemical.		

## MATERIAL SAFETY DATA SHEET

**FIRE AND EXPLOSION HAZARDS:** For bulk size > 1L – High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

**SPECIAL FIRE FIGHTING PROCEDURES:** Highly flammable. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

**FIRE FIGHTING PROTECTIVE EQUIPMENT:** A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**SENSITIVE TO MECHANICAL IMPACT:** No

**SENSITIVE TO STATIC DISCHARGE:** Yes

### 6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Prevent entry into drains. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Use only non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Transfer to a container for disposal or recovery. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

### 7. HANDLING AND STORAGE

**PRECAUTIONS FOR HANDLING:** Observe precautions found on the label. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment.

**HANDLING:** Avoid contact with skin and eyes.  
Avoid inhalation of high concentration of vapors. Use only in well ventilated areas.  
The vapor is heavier than air; beware of pits and confined spaces. Take precautionary measures against static discharges.

**STORAGE:** Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight, other light sources, or sources of intense heat.  
Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition – No Smoking.

**IMPORTANT:** Methacrylate stored in bulk must be kept in contact with air (oxygen).

Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.

**STORAGE TEMPERATURE:** Preferably not exceeding 25 °C.

**INDUSTRIAL HYGIENE PRACTICES:** Avoid contact with skin, eyes, clothing, and prolonged contact with the product.  
Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics. Do not eat, drink or smoke while handling product.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

## MATERIAL SAFETY DATA SHEET

**RESPIRATORS:** Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.134 or other appropriate governing standard.

**EYE PROTECTION:** Depending on the use of this product, splash or safety glasses may be worn. If necessary, use only protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.133 or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

**GLOVES:** If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, use only protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.138 or other appropriate governing standard.

**OTHER:** Wear suitable protective clothing.

**OCCUPATIONAL EXPOSURE LIMITS:**

HAZARDOUS INGREDIENT (S):	PEL (OSHA):	TLV (ACGIH):	COMPANY RECOMMENDATION:
Methyl Methacrylate	100 ppm	100 ppm	100 ppm

### 9. PHYSICAL AND CHEMICAL PROPERTIES

For Methyl Methacrylate:

VAPOR DENSITY (AIR=1): 3.5 at 15.5 °C (60 °F)	VAPOR PRESSURE (28 mmHg): 20 °C (68 °F)	WATER SOLUBILITY: 1.6 wt% @ 20 °C (68 °F)
PERCENT VOLATILE (W/W%): 99+	BOIL POINT: 101 °C, 214 °F	SPECIFIC GRAVITY (H <sub>2</sub> O=1): 0.94
VISCOSITY: Like water	EVAPORATION RATE (BuAc=1): 3.1	DENSITY: 0.949 g/ml @ 15.5°C
ODOR: Characteristic strong and acrid	FORM: Liquid	COLOR: Clear

### 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Temperatures above 21°C, 70°F, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizers, strong reducers, free radical initiators, inert gases, and oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

**HAZARDOUS DECOMPOSITION PRODUCT(S):** Oxides of carbon when burned.

**HAZARDOUS POLYMERIZATION:** May occur.

**STABILITY:** Unstable/Reactive upon depletion of inhibitor.

### 11. TOXICOLOGICAL INFORMATION

**INHALATION:** Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory tract, dizziness, headache and anesthetic effects.

**SKIN:** May cause sensitization by skin contact. Irritating to skin. Repeated and prolonged contact may cause dermatitis.

**EYE:** Irritating to eyes. High vapor concentration will cause irritation.

**INGESTION:** Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

**TARGET ORGANS:** For Methyl Methacrylate - Repeated exposure to high levels produces adverse effects on the nose, liver, and kidneys.

## MATERIAL SAFETY DATA SHEET

There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well-conducted studies in relevant cohorts.

Recent studies in animals have shown that high exposures do not have reproductive effects. Similarly, none of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

### TOXICITY DATA:

For Methacrylate: Acute Oral Rat LD <sub>50</sub> : >7900 mg/kg Acute Dermal Rabbit LD <sub>50</sub> >35,500 mg/kg Inhalation Human TC <sub>Lo</sub> 125 ppm Inhalation Human TC <sub>Lo</sub> 60 mg/m <sup>3</sup> Inhalation Rat LC <sub>50</sub> 7094 ppm/4H	For N,N-dimethyl-p-toluidine: Acute Oral Rat LD <sub>50</sub> 1650 mg/kg Acute Dermal Rat LD <sub>50</sub> >2000 mg/kg Inhalation Rat LC <sub>50</sub> 2540 ppm/4H
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## 12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Flathead Minnows LC<sub>50</sub> 130 mg/L, 96H  
 (For Methyl Methacrylate) Daphnia magna EC<sub>50</sub> 69 mg/L, 48H  
 Algae LC<sub>50</sub> 170 mg/L, 96H

ENVIRONMENTAL FATE: 28 Day Biodegradation Study: Not readily biodegradable.  
 (For Methyl Methacrylate) Chemical Oxygen Demand (COD) 88% (28 days).  
 Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC removal) > 95% (28 days)  
 Adsorption/Desorption: High mobility in soil.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for methyl methacrylate is 1000 lbs (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

## 14. TRANSPORTATION

DOT / UN SHIPPING NAME: Flammable liquid, n.o.s.  
 (Methyl Methacrylate monomer, stabilized / N, N-dimethyl-p-toluidine solution)  
 NA/UN NUMBER: UN1993  
 DOT/UNCLASS: 3  
 PACKING GROUP: II  
 LABEL: Flammable liquid  
 IMDG CLASS: 3  
 CERCLA RQ: 1000 lb

## 15. REGULATORY INFORMATION

### EC REGULATIONS:

EINECS: all chemical listed  
 EEC Classification: HIGHLY FLAMMABLE AND IRRITANT  
 Symbol: Indication of Danger



F Highly Flammable



Xn Harmful

## MATERIAL SAFETY DATA SHEET

Risk Phrases: R11 Highly flammable.  
 R20/21/22 Harmful by inhalation, and in contact with skin.  
 R33 Danger of cumulative effects.  
 R36/37/38. Irritating to the eyes, respiratory system and skin.  
 R43 May cause sensitization by skin contact.

Safety Phrases: S3 Keep in a cool place.  
 S7 Keep container tightly closed.  
 S9 Keep container in well ventilated place.  
 S16 Keep away from sources of ignition. No smoking.  
 S20 When using do not eat or drink.  
 S24 Avoid contact with skin.  
 S29 Do not empty into drains.  
 S37/39 Wear suitable gloves and eye/face protection.  
 S46 If swallowed, seek medical advice immediately and show this container or label.

### CANADIAN REGULATIONS:

DSL: included

WHMIS Classification: B2 Flammable Liquid  
 D2B Irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

Other Federal Requirements: This product complies with the appropriate sections of the U.S. FDA's 21 CFR.

State Regulatory: This product may contain components that are covered under specific state criteria.

SARA Reporting Requirements: Yes

SARA Threshold Planning Quantity: There are specific Threshold Planning Quantities for the components of this product.

## 16. OTHER INFORMATION

### HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

PERSONAL PROTECTIVE EQUIPMENT – Gloves and safety glasses or chemical splash goggles.

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

This data sheet was prepared in accordance with Directive 91/155/EEC.

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. Lang Dental Mfg. Co., Inc. shall not be held liable for any damage resulting from the handling of or contact with the above product.

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UPDATE 03/23/10



# SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** ORTHO-JET CRYSTAL POWDER

### Other means of identification

**SDS#** 022

**Product Code** 0220, 0230, 0250, 0270, 0280, 0223, 0234, 0256

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

**Recommended Use** Fabrication of orthodontic appliances

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

#### Supplier Address

Lang Dental Mfg. Co., Inc.  
175 Messner Dr.  
Wheeling, IL 60090  
USA

### Emergency telephone number

**Company Phone Number** 847-215-6622

**Emergency Telephone (INFOTRAC)** 352-323-3500 (International)  
800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification** This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122); however, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product and should be retained for employees and other users of this product.

**Physical State** Powder      **Appearance** Fine white      **Odor** Faint odor in bulk

**Hazards not otherwise classified (HNOC)** Not applicable

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	> 85	*
Diethyl phthalate	84-66-2	< 15	*

\*Specific chemical weight has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### First aid measures

**Inhalation** Remove to fresh air. Get medical attention if discomfort persists.

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<b>Eye contact</b>	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested.
<b>Skin Contact</b>	Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse.

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

**Suitable:** Water, carbon dioxide (CO<sub>2</sub>), dry chemical

**Unsuitable:** Avoid extinguishing methods which may generate dust clouds.

#### **Specific hazards arising from the chemical**

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

#### **Protective equipment and precautions for firefighters**

Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### **6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

#### **Methods and material for containment and clean-up**

**Method for containment** Prevent further leakage or spillage if safe to do so.

**Method for clean-up** Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

### **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

**Advice on safe handling** Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust or fume. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

#### **Conditions for safe storage, including any incompatibilities**



<b>Storage Conditions</b>	Keep containers tightly closed to prevent water absorption and contamination. Store in a dry, cool and well-ventilated place away from direct sunlight or other sources of light or intense heat. Preferable storage temperature not to exceed 35°C.
<b>Packaging materials</b>	Keep in original container.
<b>Incompatible materials</b>	Strong oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethyl phthalate 84-66-2	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated)	TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls** Apply technical measures to comply with the occupational exposure limits. When working with large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

### Individual protection measures, such as personal protective equipment

<b>Eye / face protection</b>	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29 CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
<b>Skin and body protection</b>	If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.
<b>Respiratory protection</b>	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.
<b>General hygiene considerations</b>	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>	Powder	<b>Odor</b>	Faint odor in bulk
<b>Appearance</b>	Fine	<b>Odor threshold</b>	Not determined
<b>Color</b>	White		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks / Method</u></b>	
pH	Not determined		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not applicable		
Flash point	304°C / 580°F		
Evaporation rate	Not applicable		
Flammability (solid, gas)	Non-flammable		
Flammability limits in air			
Upper flammability limit	Not applicable		
Lower flammability limit	Not applicable		
Vapor pressure	Not applicable		

Vapor density	Not applicable
Specific gravity	Not determined
Water solubility	Insoluble in water
Solubility in other solvents	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions</b>	None under normal processing
<b>Hazardous polymerization</b>	Does not occur.
<b>Conditions to avoid</b>	Heating above 240°C / 464°F
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Methacrylate monomer, oxides of carbon when burned

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposures

<b>Product information</b>	This product has not been tested on animals to obtain toxicology data.
<b>Inhalation</b>	Not expected to be an inhalation hazard under normal conditions of intended use
<b>Eye contact</b>	Avoid contact with eyes.
<b>Skin contact</b>	Avoid contact with skin.
<b>Ingestion</b>	Do not taste or swallow.

### **Component information**

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Diethyl phthalate 84-66-2	8600 mg/kg (rat)	> 11200 mg/kg (rat)	-

### Information on physical, chemical and toxicological effects

<b>Symptoms</b>	Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Not classifiable as a human carcinogen (IARC group 3)
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<b>Numerical measures of toxicity – Product</b>	Not determined
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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed aquatic life.

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethyl phthalate 84-66-2	23: 72 h Desmodesmus subspicatus mg/L EC50; 23: 72 h Desmodesmus subspicatus mg/L EC50 static; 21: 96 h Desmodesmus subspicatus mg/L EC50; 21: 96 h Desmodesmus subspicatus mg/L EC50 static; 42-255: 72 h Pseudokirchneriella subcapitata mg/L EC50; 2.11-4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	17: 96 h Pimephales promelas mg/L LC50 flow-through; 16.8: 96 h Pimephales promelas mg/L LC50 static; 22: 96 h Lepomis macrochirus mg/L LC50 flow-through; 16.7: 96 h Lepomis macrochirus mg/L LC50 static; 12: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	36-74: 48 h Daphnia magna mg/L EC50; 86: 48 h Daphnia magna mg/L EC50 static

**Persistence and degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

Chemical Name	Partition coefficient
Diethyl Phthalate 84-66-2	2.35

**Other adverse effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

For bulk only: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers.  
Dispose of all empty containers properly in accordance with federal, state and local regulations.

Chemical Name	RCRA	RCRA-Basis for listing	RCRA-D Series Wastes	RCRA-U Series Wastes
Diethyl Phthalate 84-66-2	U088	Included in waste stream: F039	-	U088

### 14. TRANSPORTATION INFORMATION

**DOT**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

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**TSCA**  
**DSL**

For use in FDA regulated products only  
Listed

United States Toxic Substances Control Act, Section 8(b) Inventory  
Canadian Domestic Substances List

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

Chemical Name	CWA-Reportable Quantities	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
Diethyl Phthalate 84-66-2	-	X	X	-

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ) Final
Diethyl Phthalate 84-66-2	1000 lb.	-	1000 lb. / 454 kg

**US State Regulations**

**US State Right-to-know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethyl Phthalate 84-66-2	X	X	X

**16. OTHER INFORMATION**

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

**Issue Date** 26-Sept-2014

**Revision Date**

**Revision Note**

**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. It 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