



Lilly-Ram Chemical Company, LLC

# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Material Identification

**Product ID:** 87-X30  
Product Name: MOLGARD X  
Product Use: Coatings product.  
Print date: 10/Mar/2010  
Revision Date: 10/Mar/2010

### Company Identification

Lilly-Ram Chemical Company  
P.O. Box 3337  
Ontario, CA. 91761-9998

Manufacturer's Phone: 1-909-223-9699

**24-Hour Medical Emergency Phone:** 1-888-345-5732

## 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
DIOCTYL PHTHALATE 117-81-7	75 - 80	Di(2-ethylhexyl)phthalate
SUPPLIER TRADE SECRET	20 - 25	SUPPLIER TRADE SECRET

If this section is blank there are no hazardous components per OSHA guidelines.

## 3. HAZARDS IDENTIFICATION

### Primary Routes of Exposure:

Inhalation  
Ingestion  
Skin absorption

### Emergency Overview:

This section not in use.

**This product contains ingredients that may contribute to the following potential acute health effects:**

### Inhalation Effects:

Corrosive to respiratory passages.

### Eye Contact:

May cause eye burns.

### Skin Contact:

May cause skin burns.

### Acute Ingestion:

Irritation of gastrointestinal tract.

**Other Effects:**

Contains ingredients which are corrosive.

**This product contains ingredients that may contribute to the following potential chronic health effects:**

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

**4. FIRST AID MEASURES****Inhalation:**

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

**Eye Contact:**

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

**Ingestion:**

If swallowed, get medical attention immediately. If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Medical conditions aggravated by exposure:** Any respiratory or skin condition.

**5. FIRE FIGHTING MEASURES**

Flash point (Fahrenheit):	212° F ( 100° C) TCC/PM
Lower explosive limit:	Not available. %
Upper explosive limit:	Not available. %
Autoignition temperature:	Not available. ° F ( ° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Sensitivity to static discharge is not expected.
Hazardous combustion products:	See Section 10.

**Unusual fire and explosion hazards:**

None known.

**Extinguishing media:**

Carbon dioxide, dry chemical, foam and/or water fog.

**Fire fighting procedures:**

Use water spray to cool nearby containers and structures exposed to fire.

**6. ACCIDENTAL RELEASE MEASURES****Action to be taken if material is released or spilled:**

Avoid contact with eyes.

**7. HANDLING AND STORAGE**

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### Precautions to be taken in handling and storage:

Keep container closed when not in use.

## 8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

### Personal Protective Equipment

#### Eye and face protection:

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

#### Skin protection:

Appropriate chemical resistant gloves should be worn. To prevent skin contact wear protective clothing covering all exposed areas.

#### Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### Ventilation

Required when spraying or applying in confined area.

### Exposure Guidelines

#### OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIOCTYL PHTHALATE 117-81-7	75 - 80	5 mg/m <sup>3</sup>		

#### ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIOCTYL PHTHALATE 117-81-7	75 - 80	5 mg/m <sup>3</sup>			

If this section is blank, no information is available.

## 9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	1 mmHG @ 68° F ( 20° C)
Vapor density (air = 1.0):	13.5
Boiling point:	723° F ( 384° C)
Solubility in water:	Slightly Soluble
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	8.19
Specific Gravity	.98
Evaporation rate (butyl acetate = 1.0):	Not determined.

## 10. STABILITY AND REACTIVITY

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Stability

Conditions to Avoid:

Incompatibility:

Hazardous Polymerization:

Hazardous Decomposition Products:

Stable

None known.

Strong oxidizers.

None anticipated.

Carbon monoxide and carbon dioxide. Oxides of phosphorous.

Sensitivity to static discharge:

Sensitivity to static discharge is not expected.

## 11. TOXICOLOGICAL INFORMATION

**Mutagens:**

Common Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
DIOCTYL PHTHALATE 117-81-7	75 - 80	Listed: October 24, 2003 Developmental toxin.	Listed: October 24, 2003 Male reproductive toxin.

**Teratogens:**

**Carcinogens:**

Common Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
DIOCTYL PHTHALATE 117-81-7	75 - 80		Anticipated carcinogen.	male rat-positive; female rat-positive; male mice- positive; female mice- positive

Common Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
DIOCTYL PHTHALATE 117-81-7	75 - 80			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

If this section is blank, no information is available.

## 12. ECOLOGICAL DATA

Not available at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. Department of Transportation

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class:

9

UN ID Number:

UN3082

## 14. TRANSPORTATION INFORMATION

Packing Group: III  
Hazardous Ingredient: DIETHYL HEXYL PHTHALATE  
(Land) 1

### 49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

### International Air Transport Association:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class: 9  
UN ID Number: UN3082  
Packing Group: III  
IATA N.O.S. Technical Name 1: DIETHYL HEXYL PHTHALATE

### International Maritime Organization:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Hazard Class: 9  
Non-Bulk UN ID Number: UN3082 by Land  
Packing Group: III

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIOCTYL PHTHALATE 117-81-7	75 - 80		form R reporting required for 0.1% de minimis concentration	100

### SARA 311/312 Hazard Class:

Acute: Yes  
Chronic: Yes  
Flammability: No  
Reactivity: No  
Sudden Pressure: No

### U.S. STATE REGULATIONS:

#### Pennsylvania Right To Know:

DIOCTYL PHTHALATE 117-81-7  
DIOCTYL PHTHALATE 117-81-7  
SUPPLIER TRADE SECRET Trade Secret

### California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Rule 66 status of product

Not photochemically reactive.

### INTERNATIONAL REGULATIONS - Chemical Inventories

#### TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

## 16. OTHER INFORMATION

### HMIS Codes

<b>Health:</b>	3
<b>Flammability:</b>	1
<b>Reactivity:</b>	1
<b>PPE:</b>	X - See Section 8 for Personal Protective Equipment (PPE).

### Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

### Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Lilly-Ram assumes no obligation or liability for use of this information. UNLESS LILLY-RAM AGREES OTHERWISE IN WRITING, LILLY-RAM MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. LILLY-RAM WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.