



Comet Chemical Company Ltd.  
3463 Thomas Street Innisfil ,ON L9S 3W4  
Tel: (705) 436-5580 Fax: (705) 436-7194

## Material Safety Data Sheet

### DIOCTYL PHTHALATE

Revision Date: 2008/05/20

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Not available.

**Product uses:** Plasticiser; in vacuum pumps.

**Product name:** Dioctyl Phthalate

**Supplier:** Comet Chemical Ltd.  
3463 Thomas Street  
Innisfil, On.  
L9S 3W4.

**Supplier 24 hour phone number:** (705)436-5580 – weekdays from 8:00-5:00.  
(800)567-7455 all other times (Newalta Services).

#### Section 2 : INGREDIENT INFORMATION

| C.A.S.   | CONCENTRATION % | Ingrédient                  | V.L.E.  | DL/50  | CL/50         |
|----------|-----------------|-----------------------------|---------|--|---------------|
| 117-81-7 | 100             | DI (2-ETHYLHEXYL) PHTHALATE | 5 MG/M3 | 30,000 MG/KG<br>RAT ORAL<br>1500 MG/KG<br>MOUSE ORAL<br>34,000 MG/KG<br>RABBIT ORAL<br>25,000 MG/KG<br>RABBIT DERMAL | NOT AVAILABLE |

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 117-81-7: LD50 4000 mg/kg rabbit dermal.

#### Section 3 : HAZARD IDENTIFICATION

**Route of entry:** Eye contact, skin contact, skin absorption, inhalation and ingestion.

##### Effects of acute exposure

**Eye contact:** May cause irritation.

**Skin contact:** Mild irritant.

**Skin absorption:** No adverse effects are expected with normal use.

**Inhalation:** Not a likely route of exposure.

**Ingestion:** May cause damage to the digestive tract.

**Effects of chronic exposure:** May cause dermatitis.  
May cause liver and kidney damage.

**Sensitization to product:** No

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Effects have been reported in animals.

**Teratogenicity:** Not available.

**Mutagenicity:** Effects have been reported in animals.

**Synergistic materials:** None known.

#### Section 4 : FIRST AID MEASURES

**Skin contact:** Wash thoroughly with soap and water.  
Remove contaminated clothing.  
Consult a physician if irritation persists.

**Eye contact:** Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.

**Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.

**Ingestion:** Obtain immediate medical attention.  
Do not induce vomiting, keep person warm, quiet.  
Guard against aspiration of liquids into lungs.  
If vomiting occurs, keep head below hips.  
If conscious, give several glasses of water.  
Never give anything by mouth to an unconscious person.

#### Section 5 : FIRE FIGHTING MEASURES

**Flammability:** Not flammable.

**Conditions of flammability:** At temperatures at or above flash point.

**Extinguishing media:** Dry chemical.  
Foam  
Water fog.

**Special procedures:** Firefighters should wear adequate protective gear.  
Self-contained breathing apparatus required.  
Use water spray to cool fire exposed containers.

**Auto-ignition temperature (°C):** Lowest known value.  
390°C

**Flash point (°C), method:** 215°C

**Lower flammability limit (% vol):** Not available.

**Upper flammability limit (% vol):** Not available.

#### Explosion Data

**Sensitivity to static discharge:** Not sensitive.

**Sensitivity to mechanical impact:** Not sensitive.

**Hazardous combustion products:** Carbon monoxide (CO).  
Nitrogen oxides (NO<sub>x</sub>).  
Acrid smoke.

**Rate of burning:** Not available.

**Explosive power:** Not available.

#### Section 6 : ACCIDENTAL RELEASE MEASURES

**Leak/Spill:** Absorb with inert material.  
Dike area to prevent spreading.  
Ventilate area.  
Wear appropriate protective equipment.  
Place in a closed container for disposal.  
Shovel into closeable containers.  
Recover free liquid with pumps.  
Do not flush to sewer.

#### Section 7 : HANDLING AND STORAGE

**Handling procedures and equipment:** Keep away from heat, sparks, and open flame.  
Avoid breathing vapors/mists.  
Use adequate ventilation.  
Wear personal protective equipment appropriate to task.  
Do not cut, grind, weld or drill empty container.  
Avoid contact with skin, eyes and clothing.  
Launder contaminated clothing prior to reuse.  
Do not ingest.

**Storage requirements:** Store away from all sources of ignition.  
Store away from incompatible materials.  
Store in a cool, dry and well ventilated area.

#### Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Precautionary Measures

**Gloves/Type:**



Neoprene or nitrile gloves.  
Polyvinyl alcohol gloves.

**Respiratory/Type:** None required under normal use.

If TLV is exceeded.  
NIOSH approved respirator with organic vapor cartridge.

**Eye/Type:**



Chemical safety goggles.

**Footwear/Type:**



Impervious boots.

**Clothing/Type:** Long sleeve shirt, long trousers.  
When splashing is possible.  
Impervious clothing.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.

**Ventilation requirements:** To maintain exposure below TLV.

**Exposure limit of material:** Not available.

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Odourless.  
Viscous.  
Pale yellow.  
Clear

**Odor threshold (ppm):** None

**Vapour pressure (mmHg):** 1.2 @ 200°C

**Vapour density (air=1):** 16

### Volatiles (%)

**By volume:** Not available.

**Evaporation rate  
(butyl acetate = 1):** Not available.

**Boiling point (°C):** 231°C @ 5 mmHg

**Freezing point (°C):** -55°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.983

**Solubility in water (%):** (soluble in hydrocarbons).  
0.005% @ 20°C

**Coefficient of water\oil dist.:** Not available.

**Melting point (°C):** (Pour Point).  
-46°C

**VOC:** Not available.

## Section 10 : STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions.

**Conditions of instability:** Contact with incompatible substances.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Acids  
Nitrates.  
Alkalies.  
Strong oxidizing agents.  
Resins.

**Hazardous decomposition products:** See hazardous combustion products.

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 1500 mg/kg rat oral.  
34,000 mg/kg rabbit dermal.  
4,000 mg/kg rat dermal.  
25,000 mg/kg rabbit dermal.

**LC50 of product, species & route:** Not available.

#### Section 12 : ECOLOGICAL INFORMATION

**Environmental toxicity:** No data at this time.

**Environmental fate:** No data at this time.

#### Section 13 : DISPOSAL CONSIDERATIONS

**Waste disposal:** In accordance with municipal, provincial and federal regulations.  
May be incinerated.

#### Section 14 : TRANSPORT INFORMATION

**TDG classification:** Not regulated.

**Special shipping information:** See transportation information.

#### Section 15 : REGULATORY INFORMATION

**WHMIS classification:**

D2A



**DSL status:** Appears on DSL.

#### Section 16 : OTHER INFORMATION

**Supplier MSDS date:** 2008/05/20

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