



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
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Material Safety Data Sheet

DIBUTYL PHTHALATE

Revision Date: 2008/05/14

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Plasticiser, ink and resin solvent, textile lubricant, desensitising nitroglycerine.

Product name: Dibutyl 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
84-74-2	100	DIBUTYL PHTHALATE	5 MG/M3	7499 MG/KG RAT ORAL 3474 MG/KG MOUSE ORAL >20 ML/KG RABBIT DERMAL	4250 MG/M3 RAT INHALATION 25,000 MG/M3/2 HOURS MOUSE INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 84-71-2: LD50 5300 mg/kg rat oral.
CAS# 84-74-2: LD50 20,000 mg/kg rabbit dermal.
CAS# 84-74-2: LC50 1550 ppm inhalation.

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: May cause irritation.

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

Inhalation: May cause dyspnea (labored breathing).

Ingestion: May cause nausea.
May cause drowsiness.
May lead to coma.
May cause hallucinations, convulsions.

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

Sensitization to product: Not available.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Not available.

Teratogenicity: Not available.

Mutagenicity: Experimental effects reported.

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.
Never give anything by mouth to an unconscious person.
Drink milk.

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.
402°C

Flash point (°C), method: 157°C

Lower flammability limit (% vol): Not available.

Upper flammability limit (% vol): Not available.

Explosion Data

Sensitivity to static discharge: Not expected.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Smoke
Nitrogen oxides (NOx).

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.
Avoid contact with skin, eyes and clothing.
Launder contaminated clothing prior to reuse.
Do not ingest.
Keep away from incompatible materials.

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:



Butyl rubber, nitrile or polyvinyl alcohol.
Viton gloves.


Respiratory/Type: None required under normal use.



NIOSH approved organic vapour cartridge respirator when vapour/mist exposure is likely.

Eye/Type: 

Chemical safety goggles.

Footwear/Type: 

Impervious boots.

Clothing/Type: Long sleeve shirt, long trousers.



Impervious apron.
When splashing is possible.

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

Ventilation requirements: Mechanical ventilation is recommended.

Exposure limit of material: Not available for mixture, see the ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Colourless.
Clear
Almost odourless.
Oily liquid.

Odor threshold (ppm): Not applicable.

Vapour pressure (mmHg): 1×10^{-5} (25°C)
1.1 (150°C)

Vapour density (air=1): 9.6

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 340°C

Freezing point (°C): -35°C

pH: Not available.

Specific gravity @ 20 °C: 1.48

Solubility in water (%): (also soluble in alcohols).
(soluble in ethers).
(soluble in ketones).
(soluble in hydrocarbons).
11.2 mg/L (20°C)

Coefficient of water\oil dist.: Not available.

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: Chlorine.
Strong acids and alkalis.
Strong oxidizing agents.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 8000 mg/kg rat oral.
20,000 mg/kg rabbit dermal.
5300 mg/kg mouse oral.

LC50 of product, species & route: 1550 ppm inhalation mouse.

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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(di-n-butyl phthalate)
UN3082
Class 9
PG III.

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: 2008/05/14

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