



DINO Lube

SECTION 1. IDENTIFICATION

Product Identifier	DINOLube
Other Means of Identification	PL-010
Other Identification	Polyurea lubricant
Product Family	Polurethane lubricant
Recommended Use	Lubricant for spray equipment parts and fittings.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	Cortez Industries Inc., 925 Mid-Way Blvd Unit 2, Mississauga, ON, L5T 1L9, Canada, Blair Duguid, 1-905-301-4152, www.cortezindustries.ca
Supplier Identifier	Cortez Industries Inc., 925 Mid-Way Blvd Unit 2, Mississauga, ON, L5T 1L9, Canada, Blair Duguid, 1-905-301-4152, www.cortezindustries.ca
Emergency Phone No.	Canutec, 1-613-996-6666 Blair Duguid, 1-905-301-4152
SDS No.	0059

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

Other Hazards

Use in a well ventilated room, vapour extraction should be close to the floor.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Bis(2-ethylhexyl) terephthalate	6422-86-2	91 - -100	PL-010	Terephthalic acid, bis(2-ethylhexyl) ester, Kodaflex DOPT
2-ethylhexyl methyl terephthalate	63468-13-3	1 - 8	PL-010	1,4-Benzenedicarboxylic acid

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in a recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay

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attention to their own safety. Keep the person warm and rested. Keep respiratory tract clear. In case of irregular breathing or respiratory arrest, practice artificial respiration. In case of unconsciousness, lie down in a stable lateral position and call a doctor. Do not leave the victim unattended. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Remove contaminated clothing. Rinse with large amounts of water. Call a POISON CENTRE or doctor physician if you feel unwell. Get medical advice or attention if you feel unwell or are concerned. Clean clothing, shoes and leather goods.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Protect unharmed eye if eye irritation persists, get medical advice or attention. Consult an ophthalmologist.

Ingestion

Rinse mouth with water. Get medical advice and attention immediately. DO NOT induce vomiting unless directed by a physician or poison control centre. Keep the person calm. If a person vomits and is lying on their back, turn it to one side. Never give anything to an unconscious person. If the symptoms persist, take victim immediately to hospital with the MSDS of the product swallowed.

First-aid Comments

Note physician: treat symptomatically.

Most Important Symptoms and Effects, Acute and Delayed

No information available.

Immediate Medical Attention and Special Treatment

Target Organs

No information available.

Special Instructions

If medical advice is needed, have product container or label at hand. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Medical Conditions Aggravated by Exposure

If medical attention is needed, have product container or label at hand. Review product MSDS section 4 for more information.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Extinguishing media by order of priority: Water fog or fine spray, Carbon Dioxide (CO₂), Dry chemical, Foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Product

None known.

No hazardous combustion products are known.

Special Protective Equipment and Precautions for Fire-fighters

Exercise caution when fighting any chemical fire. Under fire conditions hazardous fumes will be present. Use positive pressure self-contained breathing apparatus in addition to the standard fire fighting equipment.

Firefighter should be equipped with self-contained breathing apparatus and turn-out gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. For additional precautions and advice on safe handling, see section 7. Never reintroduce the spilled product to its original container for reuse.

Note this product may produce a slip hazard.

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Environmental Precautions

It is good practice to prevent releases into the environment. Notify local authorities if significant amount of product leaks and cannot be contained. In the event of pollution of a body of water or sewer, notify the competent authorities in accordance with local regulations.

Methods and Materials for Containment and Cleaning Up

Place the absorbent material on the liquid allowing it to absorb (30 minutes) and collect with non-sparking shovel in sealed labelled containers for disposal according to local regulations. Compatible container with the product, then seal tightly and store in a safe cool and ventilated area until disposal. Dispose of contaminant and container according to local national regulation in an approved environmental disposal site.

Other Information

No other data.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protection equipment see section 8. Prevent accidental contact with incompatible chemicals. General hygiene considerations: wash hands thoroughly after handling.

Conditions for Safe Storage

Keep in properly labeled container. Respect label warnings. Close all opened containers securely and store vertically to prevent flow. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Good ventilation should be used. Ventilation rates should be matched to conditions. Use local exhaust ventilation or other engineering controls. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity build-up should be followed.

Appropriate Engineering Controls

Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. The hazard potential of this product is relatively low. General ventilation is usually adequate. For large scale use of this product: use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Ensure an eye shower and safety shower are located near the workstation. Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Hygiene measures in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday. Wear well adjusted safety glasses or faceguard with NIOSH approved respirator with organic chemicals cartridges.

Glove suitability for the specific type of work and or exposure time should be evaluated by a protective glove supplier. Provide eyewash and safety showers.

Suitable materials are: neoprene rubber, nitrile rubber, butyl rubber.

Respiratory Protection

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep gas vapour concentrations as low as possible below the TWA 8 hour exposure limits. Use explosive-proof ventilation equipment. Respirator selection should be based on known or anticipated exposure levels, the hazard of the product, and the safe use limits of the selected respirator. In normal exposure situation wear a properly fitted air purifying respirator with face piece approved by NIOSH.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Basic Physical and Chemical Properties

Appearance	Colourless liquid. Particle Size: Not available
Odour	Mild
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	-67.24 °C (-89.03 °F) (melting); Not available (freezing)
Initial Boiling Point/Range	375.3 °C (707.5 °F)
Flash Point	212 °C (414 °F) (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	0.0000075 mm Hg (0.0000010 kPa) at 25 °C
Vapour Density (air = 1)	13.47
Relative Density (water = 1)	0.983 at 25 °C
Solubility	0.00001 g/L (Insoluble) at 25 °C in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	8.32 at 20 °C
Auto-ignition Temperature	387 °C (729 °F)
Decomposition Temperature	Not available
Viscosity	66.9 mm ² /s at 25 °C (kinematic); 63 centipoises at 25 °C (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	383.59
Bulk Density	Not available
Surface Tension	32.7 mN/m at 20 °C (68 °F)
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reasonably foreseeable.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

None known.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

No information available.

Hazardous Decomposition Products

Carbone monoxide and dioxides.

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SECTION 11. TOXICOLOGICAL INFORMATION

Route of entry non defined.

Likely Routes of Exposure

Route of entry not defined.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Bis(2-ethylhexyl) terephthalate	0.0718 mg/L (rat) (4-hour exposure) (vapour)	5000 mg/kg (rat)	20 mg/kg (guinea pig)
2-ethylhexyl methyl terephthalate	0.0718 mg/L (rat) (4-hour exposure) (vapour)	5000 mg/kg (rat)	20 mg/kg (guinea pig)

Inhalation ATE mix = 0.07 mg/L (4-hour exposure) (vapour)

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

Oral ATE mix = 5000 mg/kg

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

Dermal ATE mix = 20 mg/kg

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

Skin Corrosion/Irritation

Based on available information, skin corrosion/irritation is not expected under normal condition of use.

Serious Eye Damage/Irritation

Animal tests show very mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Based on animal tests. Not expected.

Skin Absorption

Non irritant. Not sensitizing based on animal test.

Ingestion

No information was located.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not classified based on the information available.

Respiratory and/or Skin Sensitization

Not classified as skin sensitizing based on the information available. Not a respiratory sensitizer.

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

Key to Abbreviations

OSHA = US Occupational Safety and Health Administration. IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

Reproductive Toxicity

Development of Offspring

The limited evidence available does not indicate the product is a developmental toxin.

Sexual Function and Fertility

Not classified based on available information.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

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Based on the available data, the classification criteria are not met.

Interactive Effects

No information was located.

Other Information

No information found.

SECTION 12. ECOLOGICAL INFORMATION

Readily biodegradable at the level of 73.05%.

Ecotoxicity

Readily biodegrades.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Bis(2-ethylhexyl) terephthalate	984 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water)		0.86 mg/L (Desmodesmus subspicatus (algae); 72-hour; fresh water)	
2-ethylhexyl methyl terephthalate	984 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water)		0.86 mg/L (Desmodesmus subspicatus (algae); 72-hour; fresh water)	

Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Bis(2-ethylhexyl) terephthalate	0.25 mg/L (Fish; 7-Days; fresh water)		0.0014 mg/L (Daphnids (water flea); 48-hours; fresh water)	
2-ethylhexyl methyl terephthalate	0.25 mg/L (Fish; 7-Days; fresh water)		0.0014 mg/L (Daphnids (water flea); 48-hours; fresh water)	

Persistence and Degradability

Readily biodegradable.

Biodegradation: 73.05%

Exposure: 28 d

Method: Readily biodegradable: CO2 Evolution test

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

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SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Product is present in the U.S.TSCA.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

CEPA - National Pollutant Release Inventory (NPRI)

(Bis(2-ethylhexyl) terephthalate) Pollution category Y ship type 2 for IBC container.

USA

Additional USA Regulatory Lists

No information available.

Custom Regulatory 1

Not applicable.

Custom Regulatory 2

No information available.

Custom Regulatory 3

No information is available.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 1 Flammability - 1 Instability - 0

SDS Prepared By Cortez Industries

Phone No. 1-905-301-4152

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Revision Indicators MSDS was entirely reviewed.

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

Disclaimer Cortez Industries believes that the information contained in this Safety Data Sheet are accurate. The information was collected from the supplier's MSDS and the CHEMINFO database.

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