

MATERIAL SAFETY DATA SHEET

MSDS File Number: 1762

SECTION I - MATERIAL IDENTIFICATION AND USE			FLAMMABILITY	1
Material Name / Product Identifier D-MO SL			REACTIVITY	0
Manufacturer's Name Consumers' Co-operative Refineries Limited P.O. Box 260; 550E 9th Avenue North Regina, SK S4P 3A1 CANADA (306) 721-5353		Supplier's Name Federated Co-operatives Limited P.O. Box 1050; 401 - 22nd Street East Saskatoon, SK S7K 3M9 CANADA (306) 244-3447		HEALTH (Acute) 0 (Chronic) N
Emergency Telephone Number (613) 996-6666 (Canutec)		Emergency Telephone Number		Mfg Reference Number
Chemical Name N.D.		Chemical Family N.D.		Chemical Formula Mixture.
Molecular Weight N.D.	Trade Name and Synonyms 0W40; 5W30; Syn-Blend 0W30		Material Use Lubricating Oil.	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIALS				
Hazardous Ingredients	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50 / LC 50 (Species and Route)
Base Oil	6080.0 %		(ACGIH) TLV-TWA 5 mg/3m (oil mist)	(LD50) Oral (rat) > 5,000 mg/kg
Additive Package (*)	20.0 - 25.0 %		(ACGIH) TLV-TWA 5 mg/m3 (oil mist)	
Zinc C1-C14 Alkydithiophosphate (**)		68649-42-3	(ACGIH) TLV-TWA 10 mg/m3	

(*) Denotes: Additive package containing rust/oxidization inhibitor, anti-foam agent, anti-wear compound and viscosity modifier. (**) Denotes: Component of the additive package.

SECTION III - PHYSICAL DATA FOR MATERIAL				
Physical State Liquid	Odour and Appearance Brown oily liquid; mild odor		Odour Threshold (ppm)	Specific Gravity .8814 - .8954 @ 15.6 C
Vapour Pressure N.D.	Vapor Density (Air = 1) N.D.	Evaporation Rate N.D.	Boiling Point N.D.	Freezing / Pour Point -20 C
Solubility in Water (20 C) Slight	% Volatiles N.D.	pH N.D.	Coefficient of water / oil distribution N.D.	

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL			
Conditions of Flammability May form combustible mixtures with air at temperatures at or above the flashpoint.			
Means of Extinction Foam, water spray, dry chemical, carbon dioxide.			
Special Procedures Cool fire exposed containers with water spray. Due to the danger of slop over, avoid getting water into container. Move containers away from fire area if at no risk. Vapours may travel to distant ignition sources and flashback. Fire fighters should wear self contained breathing apparatus.			
Flash Point and Method > 148.9 C (Open Cup)	Upper Explosion Limit N/A	Lower Explosion Limit N/A	Auto Ignition Temperature 417.2 C
Explosion Data - Sensitivity to Mechanical Impact N.D.		Explosion Data - Sensitivity to Static Discharge N.D.	

SECTION V - REACTIVITY DATA		
Chemical Stability Yes.	If no, under which conditions?	Stable under normal conditions of use and storage.
Incompatibility to other substances Yes.	If so, which ones?	Unstable with strong oxidizers.
Reactivity and under what conditions Exposure to heat or oxidizing materials will greatly increase fire hazard. Hazardous polymerization will not occur.		
Hazardous Decomposition and Combustion Products Incomplete combustion may produce aldehydes, hydrogen sulfide, short chain alkyl mercaptans and oxides of carbon, sulphur, calcium, phosphorus and zinc.		



Material Name / Product Identifier **D-MO SL**

SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry **Skin Contact, Eye Contact, Inhalation, Ingestion.**

Effects of Acute Exposure to Product

Based on data of components, not expected to irritate skin or eyes. Low oral toxicity; if aspirated into the lungs from swallowing or vomiting, this material may cause severe health effects (eg. chemical pneumonitis).

Effects of Chronic Exposure to Product

Repeated or prolonged contact with skin from clothing wet with material may cause skin irritation.

LD50 of Product Oral (rat) >5000 mg/kg.	Irritancy of Product Yes.	Exposure Limits of Product See 'Hazardous Ingredients'.
LC50 of Product N.D.	Sensitization to Product N.D.	Synergistic materials N.D.

OTHER TOXICOLOGICAL EFFECTS: None.

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. There is no data available to indicate any components present at greater than 0.1% that may cause mutagenic, teratogenic or reproductive effects. Ingredient Zinc C1-C14 Alykyldithiophosphate is a known eye irritant at concentration levels above 5%.

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment

Wear chemical resistant clothing if prolonged skin contact is likely.

Gloves Neoprene or Nitrile.	Eye Protection Safety glasses with side shields or chemical goggles.
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Respiratory
Not normally required if used with adequate ventilation. Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

Engineering Controls

Use only in well ventilated areas. Use of mechanical ventilation is recommended.

Leak and Spill Procedure

Ventilate area. Remove ignition sources. Contain (prevent entry into waterways). Wear protective equipment as necessary including rubber boots. Pump up using an explosion proof pump. Soak up remainder with an inert, absorbent material.

Waste Disposal

Recycle, dispose of or incinerate product and/or contaminated materials in accordance with federal, provincial and local government regulations. Take the necessary action to prevent or remedy the adverse effects of any spill.

Handling Procedures and Equipment

Avoid prolonged contact with skin. Wear chemical resistant clothing if prolonged contact with skin is likely. Avoid eye contact. Wear chemical goggles if splashing may occur. Avoid breathing vapours. Use with adequate ventilation. Wash thoroughly after handling. Launder contaminated clothing before reuse. Keep away from heat and ignition sources. Empty container may contain product residue which may exhibit hazards of product.

Storage Requirements

Keep container closed when not in use. Store in cool, ventilated area, out of direct sunlight.

Special Shipping Information

TDG: Not Regulated.

SECTION VIII - FIRST AID MEASURES

Skin

Remove contaminated clothing. Wash skin with soap and running water. If irritation persists or develops, seek medical attention. Launder contaminated clothing before reuse.

Eye

Immediately flush eye(s) with running water for at least 15 minutes while occasionally holding eyelids open to ensure thorough flushing. If irritation persists or develops, seek medical attention.

Inhalation

Remove to fresh air. If breathing has stopped, begin artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Ingestion

Do NOT induce vomiting. Rinse mouth out and give 8 ounces of milk or water to drink. Keep at rest. Never give anything by mouth if victim is convulsing or is losing consciousness. Seek immediate medical attention.

General Advice

If spontaneous vomiting occurs, have victim lean forward so that their head is between their knees. Vomiting may result in aspiration into the lungs causing chemical pneumonitis.

SECTION IX - PREPARATION OF M.S.D.S

W.H.M.I.S. Classification Not a controlled product.	N.F.C. Classification
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Sources Used

Available upon request.

Prepared By CCRL Safety Department	Phone Number (306) 721-0564	Date January 2, 2007
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