

# MATERIAL SAFETY DATA SHEET

MSDS File Number: 50

<b>SECTION I - MATERIAL IDENTIFICATION AND USE</b>		<b>FLAMMABILITY</b>	<b>2</b>
Material Name / Product Identifier <b>SONIC DYNAMIX PLUS</b>		<b>REACTIVITY</b>	<b>0</b>
Manufacturer's Name <b>Consumers' Co-operative Refineries Ltd.</b> P.O. Box 260, 550 E 9th Avenue North Regina, SK S4P 3A1 Canada (306) 721-5353	Supplier's Name <b>Federated Co-operatives Limited</b> P.O. Box 1050; 401-22nd Street East Saskatoon, SK S7K 3M9 Canada (306) 244-3447	<b>HEALTH (Acute)</b>	<b>1</b>
		<b>(Chronic)</b>	<b>N</b>
Emergency Telephone Number <b>(613) 996-6666 (Canutec)</b>	Emergency Telephone Number	Mfg Reference Number	
Chemical Name <b>N.D.</b>	Chemical Family <b>N.D.</b>	Chemical Formula <b>Mixture.</b>	
Molecular Weight <b>N.D.</b>	Trade Name and Synonyms	Material Use <b>2 Cycle Lubricant.</b>	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIALS

Hazardous Ingredients	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50 / LC 50 (Species and Route)
Base Oil	60.0 - 80.0 %		(ACGIH) TLV-TWA 5 mg/m3 (oil mist)	(LD50) Oral (rat) >5000 mg/kg
Stoddard Solvent	10.0 - 30.0 %	8052-41-3		
Additive Package (*)	5.0 - 8.0 %		(ACGIH) TLV-TWA 5 mg/m3 (oil mist)	

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

## SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State <b>Liquid</b>	Odour and Appearance <b>Blue oily liquid; solvent odor</b>	Odour Threshold (ppm) <b>N.D.</b>	Specific Gravity <b>.8685 @ 15.6 C</b>
Vapour Pressure <b>N.D.</b>	Vapor Density (Air = 1) <b>&gt; 1</b>	Evaporation Rate <b>N.D.</b>	Boiling Point <b>N.D.</b>
Solubility in Water (20 C) <b>Slight</b>	% Volatiles <b>N.D.</b>	pH <b>N/A</b>	Freezing / Pour Point <b>Pour point - 30 C</b>
		Coefficient of water / oil distribution <b>N.D.</b>	

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Conditions of Flammability <b>Combustible liquid. May form combustible mixtures with air at temperatures at or above the flashpoint.</b>			
Means of Extinction <b>Foam, water spray, dry chemical, carbon dioxide to extinguish fire. Cool fire exposed containers with water spray. Avoid spraying water directly into containers due to the danger of slop over.</b>			
Special Procedures <b>Fire fighters should wear self contained breathing apparatus and full protective equipment. Cover spills with foam. If at no risk, move containers from fire area. Vapours may travel to distant ignition sources and flash back.</b>			
Flash Point and Method <b>42.8 C (Closed Cup)</b>	Upper Explosion Limit <b>N/A</b>	Lower Explosion Limit <b>N/A</b>	Auto Ignition Temperature <b>N/A</b>
Explosion Data - Sensitivity to Mechanical Impact <b>N.D.</b>		Explosion Data - Sensitivity to Static Discharge <b>Can be ignited by static discharge.</b>	

## SECTION V - REACTIVITY DATA

Chemical Stability <b>Yes.</b>	If no, under which conditions? <b>Stable under normal conditions of use and storage.</b>
Incompatibility to other substances <b>Yes.</b>	If so, which ones? <b>Unstable with strong oxidizers.</b>
Reactivity and under what conditions <b>Heat or contact with oxidizing materials will greatly increase fire and explosion hazard. Hazardous polymerization will not occur.</b>	
Hazardous Decomposition and Combustion Products <b>Incomplete combustion may produce oxides of carbon, nitrogen, sulfur and calcium.</b>	



## SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

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

Effects of Acute Exposure to Product

**Low oral toxicity; if aspirated into lungs from swallowing or vomiting, this material may cause severe health effects (eg. chemical pneumonitis). Because of solvent content, skin contact may defat tissue and eye contact may cause irritation. Inhalation of solvent vapour concentrations in excess of 1000 ppm may irritate eyes and respiratory tract, cause headaches, dizziness, anesthesia, drowsiness, unconscious and other central nervous system effects including death.**

Effects of Chronic Exposure to Product

**Prolonged or repeated contact with skin from clothing wet with this material may cause skin irritation and dermatitis.**

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

**OTHER TOXICOLOGICAL EFFECTS: None.**

There is no data available to indicate any component present at greater than 0.1% that may present a carcinogenic hazard. There is no data to indicate any component present at greater than 0.1% that may cause mutagenic, teratogenic or reproductive effects. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure should be minimized.

## SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment

**Wear chemical resistant clothing if prolonged skin contact is likely.**

Gloves <b>Neoprene or nitrile.</b>	Eye Protection <b>Safety glasses with side shields or chemical goggles.</b>
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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. Where ventilation is required to control concentrations within safe exposure limits, explosion proof, local exhaust ventilation should be used.**

Leak and Spill Procedure  
**Ventilate area. Remove ignition sources. Contain (prevent entry into waterways). Wear protective equipment 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 contaminated materials in accordance with all government regulations. Take the necessary action to prevent or remedy the adverse effects of any spill.**

Handling Procedures and Equipment  
**Avoid prolonged skin contact. Wear chemical resistant clothing if prolonged skin contact 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. When transferring, use proper grounding and bonding procedures. Keep away from heat and ignition sources. Empty container may contain product residue which may exhibit hazards of product.**

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

Special Shipping Information  
**TDG: Ship in accordance for bulk shipments (ie. container exceeds 454 liters).**

## SECTION VIII - FIRST AID MEASURES

Skin  
**Wash skin thoroughly with soap and running water for 15 minutes. Remove contaminated clothing (launder before reuse). Seek medical attention if irritation develops or persists.**

Eye  
**Flush eyes with running water for at least 15 minutes while holding eyelids open occasionally to ensure thorough flushing. If irritation persists or develops, seek medical attention.**

Inhalation  
**Remove to fresh air. If breathing has stopped, begin CPR. If breathing is difficult, give oxygen. Seek 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 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 <b>B-3, D-2(B).</b>	N.F.C. Classification
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Sources Used  
**Available upon request.**

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