

MATERIAL SAFETY DATA SHEET

MSDS File Number: 2785

SECTION I - MATERIAL IDENTIFICATION AND USE		FLAMMABILITY	0
Material Name / Product Identifier SONIC BIO FG HYDRAULIC OIL		REACTIVITY	0
Manufacturer's Name Tribospec Corporation 220, Lafleur Lasalle, PQ H8R 4C9 (514) 595-7579	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 ISO GRADES 32, 46 and 68	Material Use Non-toxic Biodegradable Lubricant for Hydraulic systems.	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIALS

Hazardous Ingredients	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50 / LC 50 (Species and Route)
No hazardous ingredients as defined by Canadian Hazardous Products Act (Bill C70) or by OSHA 29 CFR 190.1200.				

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Liquid	Odour and Appearance Yellowish colour; with neutral odour	Odour Threshold (ppm) N.D.	Specific Gravity 00.91 to 092
Vapour Pressure negligible	Vapor Density (Air = 1) N.D.	Evaporation Rate Negligible	Boiling Point > 300 C
Solubility in Water (20 C) negligible	% Volatiles N.D.	pH N.D.	Freezing / Pour Point - 25 C (pour pt)
			Coefficient of water / oil distribution N.D.

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Conditions of Flammability Non-flammable.			
Means of Extinction Foam, dry chemical, carbon dioxide.			
Special Procedures Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.			
Flash Point and Method > 230 C (Open Cup)	Upper Explosion Limit N/A	Lower Explosion Limit N/A	Auto Ignition Temperature N/A
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. Avoid excessive heat, open flames and formation of oil mist.
Incompatibility to other substances Yes.	If so, which ones? Oxidizing agents, strong acids and bases.
Reactivity and under what conditions Hazardous polymerization will not occur.	
Hazardous Decomposition and Combustion Products Hazardous combustion products: Normal combustion products, CO and CO2.	



SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

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

Effects of Acute Exposure to Product

Inhalation: Short-term overexposure can cause an irritation to the respiratory passages. Exposure limit to the mist = 5 mg/m3. **Eyes:** Should not cause eye irritation. **Skin:** This product should not cause skin irritation. **Ingestion:** Non-toxic.

Effects of Chronic Exposure to Product

Inhalation: Prolonged exposure to high vapor concentration of this product can cause headache, dizziness and nausea.

LD50 of Product (LD50) Oral (rat) > 10000 mL/kg.	Irritancy of Product Yes.	Exposure Limits of Product (ACGIH) TLV-TWA 5 mg/m3 (mist).
LC50 of Product N.D.	Sensitization to Product N.D.	Synergistic materials N.D.

OTHER TOXICOLOGICAL EFFECTS: None.

No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. Nation Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment

Wear suitable protective clothing.

Gloves
Normal work gloves.

Eye Protection
Chemical safety goggles are recommended.

Respiratory
Not normally required if used with adequate ventilation. Wear an appropriate NIOSH approved respirator c/w chemical cartridge if mist is present.

Engineering Controls
Mechanical ventilation is recommended.

Leak and Spill Procedure
Eliminate all ignition sources. Stop leak only if safe to do so. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

Waste Disposal
Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.

Handling Procedures and Equipment
Use good personal hygiene. Always keep the container close.

Storage Requirements
Store in cool, dry, ventilated area, away from heat and ignition sources.

Special Shipping Information
TDG: Not Regulated.

SECTION VIII - FIRST AID MEASURES

Skin
Wash contaminated skin with mild soap and water. See a physician if irritation persists.

Eye
Flush immediately with water for at least 15 minutes. If irritation persists or develops seek medical attention.

Inhalation
Remove person to fresh air. See a physician if irritation persists.

Ingestion
This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an anti-Poison Center (1-800-463-5060).

General Advice

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

W.H.M.I.S. Classification
Not a controlled product.

N.F.C. Classification

Sources Used
Tribospec Corporation. Available upon request.

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Date
January 2, 2007