SAFFTY DATA SHFFT

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FS Industrial Hydraulic Oil ISO 46 (Canada)			WHMIS: Not Controlled	
Product Use: Hydraulic fluid				
Manufacturer's Name: Forsythe Lubrication Associates				
Street Address: 120 Chatham Street				
City: Hamilton	Province: ON	Postal Code: L8P 2B5	Emergency Telephone: 905-525-7192	

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview:

Classification in accordance with 29 CFR 1910.1200 Not hazardous according to classification criteria

GHS Label Elements:

Symbol(s): None needed according to classification criteria Signal word: None needed according to classification criteria Hazard statement(s): None needed according to classification criteria

Precautionary Statements - Prevention

None needed according to classification criteria.

Precautionary Statements – Response

None needed according to classification criteria.

Precautionary Statements – Storage

None needed according to classification criteria.

Precautionary Statements – Disposal

Dispose of in accordance with all applicable federal, state, and local regulations.

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking.

For more information:

Call 1-800-363-2759 or

Email: gforsythe@forsythe.on.ca

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	% by wt.	CAS Number
Lubricating oils, petroleum, hydrotreated spent	14-99	64742-58-1
Petroleum distillates, solvent-refined heavy paraffinic	0-85*	64741-88-4
Residual oils (petroleum), hydrotreated	0-85*	64742-57-0
Residual oils (petroleum), solvent dewaxed	0-100*	64742-62-7
Residual oils (petroleum), solvent refined	0-85*	64742-01-4
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.1-2	*
Mineral oil	0.1-1	*

^{*}Supplier advises that this is a trade secret

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do so. Continue rinsing. Get medical attention if needed.

SKIN CONTACT: Wash with plenty of soap and water. Get medical attention if needed.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention, if needed.

INGESTION: Immediately call a POISON CENTER or doctor/physician.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Carbon dioxide, regular foam, dry chemical, water spray, or water

fog.

Water or foam may cause frothing.

UNSUITABLE EXTINGUISHING MEDIA: Do not use high-pressure water streams.

SPECIFIC HAZARDS DURING FIREFIGHTING: Move container from fire area if it can be done without risk. Keep

storage containers cool with water spray. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical

impact.

COMBUSTION PRODUCTS: Decomposition and combustion materials may be toxic. Burning may

product sulfur oxides, aldehydes, ketones, carbon monoxide, and

unidentified compounds.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: A positive-pressure, self contained breathing apparatus (SCBA) and

full-body protective equipment are required for fire emergencies.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear personal protective clothing and equipment, see Section 8.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment.

METHOD FOR CONTAINMENT & CLEAN-UP: Remove all ignition sources. Do not touch or walk through spilled

products. Stop leak it you can do it without risk. Wear protective equipment and provide engineering controls as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapour or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or absorb with compatible sorbent material and shovel with a clean, spark-proof tool into a sealable container for disposal. Additionally, for large spills; Dike far ahead of liquid spill for

collection and later disposal.

SECTION 7 – HANDLING & STORAGE

HANDLING PROCEDURES: Keep away from sparks or flame. Where flammable mixtures may be present,

equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. These products have a low vapour pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe vapour or mist. Use in a well ventilated

area. Avoid contact with eyes, skin, clothing, and shoes.

STORAGE PROCEDURES: Keep container tightly closed when not in use and during transport. Store

containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue

and can be dangerous.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS

ENGINEERING MEASURES: Where adequate general ventilation is unavailable, use process enclosures,

local exhaust ventilation, or other engineering controls.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: No respiratory protection is normally requires. Use NIOSH-certified P- or R-

series particulate filter and organic vapour cartridges when concentration of vapour or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Consult with a health and safety professional for specific

respirators appropriate for your use.

EYE PROTECTION: Safety glasses with side shields should be worn at a minimum. Additional

protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapours. Provide an emergency eye wash fountain and quick drench shower in the immediate work

area. Contact lens use is not recommended.

SKIN & BODY PROTECTION: Where skin contact is likely, wear neoprene, nitrile, or equivalent protective

gloves; use of natural rubber or equivalent gloves is not recommended.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical state Liquid

Colour Amber, red, green, or blue

Odour Petroleum odour
Odour Threshold Not available
pH Not applicable
Melting/freezing point Not available
Boiling point/boiling range 246°C (475°F)

Flash point 165°C

Evaporation Rate Not available

Flammability Limit in Air

Upper flammability limit Not available
Lower flammability limit Not available

Vapour pressure < 0.1 mm Hg at 20°C

Specific Gravity 0.88

Water Solubility Insoluble

Partition coefficient: n-octanol/water Not available

Autoignition temperature Not available

Kinematic viscosity > 20.5 mm²/s @ 40°C

SECTION 10 – STABILITY & REACTIVITY

REACTIVITY Non-reactive

CHEMICAL STABILITY Stable under normal temperatures and pressures

HAZARDOUS POLYMERIZATION Will not polymerize

CONDITIONS TO AVOID Avoid sparks, flames, or other sources of ignition

INCOMPATIBLE MATERIALS Avoid oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

None under normal temperatures and pressures

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

INHALATION No information on significant adverse effects

EYE CONTACT No information on significant adverse effects

SKIN CONTACT Repeated exposure may cause skin dryness or cracking

INGESTION May be harmful if swallowed

Chemical name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Lubricating oils, petroleum, hydrotreated spent (64742-58-1)	> 2000 mg/kg	> 4480 mg/kg	-
Residual oils (petroleum), solvent dewaxed (64742- 62-7)	> 5000 mg/kg	> 2000 mg/kg	2.18 mg/L 4 hours

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available for the product

Mutagenic Effects No information available for the product

Carcinogenicity None of this product's components are listed by ACGIH, IARC, OSHA, NIOSF, or NTP

Reproductive toxicity No epidemiological data is available for this product

STOT – single exposure No information on significant adverse effects
STOT – repeated exposure No information on significant adverse effects

Aspiration Hazard No data available

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY	Toxic to aquatic life			
	Lubricating oils, petroleum, hydrotreated spent			
	Duration/Test/Species	Concentration/Conditions		
	96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]		
	96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]		
	Residual oils (petroleum), solvent dewa	ixed		
	Duration/Test/Species Concentration/Conditions			
	96 Hr LC50 Oncorhynchus mykiss	> 5000 mg/L		
	48 Hr EC50 Daphnia magna	> 1000 mg/L		
	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts			
	Duration/Test/Species	Concentration/Conditions		
	96 Hr LC50 Pimephales promelas	1.0-5.0 mg/L [static]		
	96 Hr LC50 Pimephales promelas	10.0-35.0 mg/L [semi-static]		
	48 Hr EC50 Daphnia magna	1.0-1.5 mg/L		
PERSISTENCE & DEGRADABILITY	No information available for the product	t		
BIOACCUMULATION	No information available for the product	t		
OTHER ADVERSE EFFECTS	No additional information is available			

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, this product can be managed in accordance with the used oil exemption under 40
	CFR Part 279. Processing, use, or contamination by the user may change waste code(s) applicable to the disposal of these products.

For more information:

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Email: gforsythe@forsythe.on.ca

SECTION 14 – TRANSPORT INFORMATION

DOT	Not regulated as a hazardous material for transportation.
<u>TDG</u>	Not regulated as a dangerous good for transportation.

SECTION 15 – REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 302/304

Based on the ingredient(s) listed in Section 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 313

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

- 1.0% de minimis concentration (related to Zinc Compounds)

SARA 311-312 HAZARD CATERGORIES

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Reactive Hazard No

TSCA Inventory

All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CERCLA

Based on the ingredient(s) listed in Section 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

US STATE REGULATIONS

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS	MA	MN	NJ	PA	CA
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	Yes	No	No	Yes	Yes

No component(s) are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

CANADIAN REGULATIONS

Component	CAS#	CAN	
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	DSL	
Residual oils (petroleum), solvent dewaxed	64742-62-7	DSL	
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	DSL	

Canadian WHMIS Information

Not regulated

SECTION 16 – OTHER INFORMATION

Revision Date: 08/20/2021