

# Safety Data Sheet

# Section 1: Identification

Product Identifier		
Product Name:	BOSS INDUSTRIAL HYDRAULIC 22, 32, 46, 68, 100	
Synonyms:	Petroleum oil, Lube oil, Petroleum hydrocarbon, Lubricant	
Recommended Use:	For lubricating hydraulic systems. If this product is used in combination with other products, refer to the	
Safety Data She	et for those products.	
Restrictions on Use: Non	ne Known.	
Details of the supplier of	f the safety data sheet	
Manufacturer:	BOSS Lubricants Ltd.	
	6303 30 St SE	
	Calgary, Alberta, T2C 1R4	
Information Phone:	1-800-844-9457	
Website:	www.bosslubricants.com	
In an Emergency		
Canada Call CANUTEC:	(613) 996-6666	
U.S.A. Call CHEMTREC	(800) 424-9300	
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# Section 2: Hazard(s) Identification

Classification in Accorda	ince with 29 CFR 1910.1200	.: Not hazardous per classification criteria.
GHS LABEL ELEMENTS		
Symbol(s):	None needed per classific	ation criteria.
Signal Word:	None needed per classific	ation criteria.
Hazard Statement(s):	None needed per classific	ation criteria.
Precautionary Statemen	<u>nt(s)</u>	
Prevention:	None needed per classific	ation criteria.
Response:	None needed per classific	ation criteria.
Storage:	None needed per classific	ation criteria.
Disposal:	Dispose of in accordance	with all applicable federal, state and local regulations.
Hazard(s) Not Otherwise	e Classified: Repeate	ed exposure may cause skin dryness or cracking.

# Section 3: Composition / Information on Ingredients

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



**Component Related Regulatory Information:** Supplier advises that this is a trade secret.

#### Section 4: First Aid Measures

#### **Description of Necessary Measures**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed. **Skin:** Wash with plenty of soap and water. Get medical attention if needed.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if needed.

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

#### Most Important Symptoms/Effects

Acute: No information on significant adverse effects.

**Delayed:** No information on significant adverse effects.

**Indication of Immediate Medical Attention and Special Treatment Needed, If Needed:** Treat Symptomatically and supportively. Call 1-800-468-1760 for additional information.

#### 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 Arising from the Chemical:** Negligible fire hazard. Avoid friction, static electricity and sparks.

Hazardous Combustion Products: Decomposition and combustion materials may be toxic. Burning may produce sulfur oxides, aldehydes, ketones, carbon monoxide, and unidentified compounds.

**Special Protective Equipment and Precautions for Firefighters:** A positive-pressure, self contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Measures: 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.

NFPA Ratings:Health: 1Fire: 1Reactivity: 0Hazard Scale:0 = Minimal1 = Slight2 = Moderate3 = Serious4 = Severe

#### Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

#### Methods and Materials for Containment and Clean Up:

Remove all ignition sources. Do not touch or walk

through spilled products. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in *Section 8: Exposure Controls/Personal Protection*. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor 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.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see Section 15: Regulatory Information.



## Section 7: Handling and Storage

Precautions for Safe Handling: 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 vapor 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 vapor or mist. Use in a well-ventilated area. Avoid contact with eyes, skin, clothing, and shoes.

Conditions for Safe Storage, Including Any Incompatibilities: 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.

Incompatibilities: Strong oxidizing materials.

## Section 8: Exposure Controls / Personal Protection

**Component Exposure Limits:** ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Appropriate Engineering Controls: Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

Individual Protective Measures, such as Personal Protective Equipment: Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required Safety glasses, lab coat or apron.

 Eyes/Face 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 vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection: Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

**Respiratory Protection:** No respiratory protection is normally required. Use NIOSH-certified P- or R- series particulate filter and organic vapor cartridges when concentration of vapor 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.

#### **Section 9: Physical & Chemical Properties**

Appearance:	Amber/blue liquid	(approximately)		
Odor:	petroleum odor.	Specific Gravit	y: 0.88	(water = 1)
pH:	Not applicable		(appr	oximately)
Boiling Point:	475ºF (246ºC) (minimum)	Evaporation R	ate: Not a	vailable
Odor Threshold:	Not available	Octanol/H2O	Coeff.: Not a	vailable
Solubility (H2O):	: Insoluble	LFL:	Not a	vailable
Melting Point:	Not available [pour point 21ºF (-6C)	Auto Ignition	Temperature:	Not Available
	(maximum)]	UFL:	Not available	
Density:	7.3 LB/US gal (880 g/L)	Flash Point:	329°F (165°C)	(minimum)



Vapor Pressure:Less than 0.1 mm Hg at 68°F (20°C)Other Property Information:No information is<br/>available.

Viscosity:

>20.5 mm<sup>2</sup>/s @ 104°F (40°C)

# Section 10: Stability & Reactivity Reactivity: No reactivity hazard is expected. Chemical Stability: Stable under normal temperatures and pressures. Possibility of Hazardous Reactions: 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 Toxicity Data and Information

Component Analysis - LD50/LC50

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Dermal LD50 Rabbit >4480 mg/kg;

Oral LD50 Rat >2000 mg/kg

## Residual oils (petroleum), solvent dewaxed (64742-62-7)

Dermal LD50 Rabbit >2000 mg/kg;

Inhalation LC50 Rat 2.18 mg/L 4 h;

Oral LD50 Rat >5000 mg/kg

#### Information on Likely Routes of Exposure

Inhalation:	No information on significant adverse effects.
Ingestion:	May be harmful if swallowed.
Skin Contact:	Repeated exposure may cause skin dryness or cracking.
Eye Contact:	No information on significant adverse effects.
Immediate Effects:	No information on significant adverse effects.
Delayed Effects:	No information on significant adverse effects.
Irritation/Corrosivity:	May cause slight skin and respiratory irritation.
Respiratory Sensitization:	No information available for the product.
Skin Sensitization:	No information available for the product.
Carcinogenicity	
Component Carcinogenicity:	None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
Germ Cell Mutagenicity:	No information available for the product.
Teratogenicity:	No information available for the product.
Reproductive Effects:	No epidemiological data is available for this product.
Specific Target Organ Effects - Si	ngle Exposure: No information on significant adverse effects.
Specific Target Organ Effects - Re	peated Exposure: No information on significant adverse effects.
Aspiration Hazard:	No data available.
Medical Conditions Aggravated	by Exposure: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye,
and/or skin disorders ma	ay have increased susceptibility to the effects of exposure.



mation		
life.		
- Aquatic Toxicity		
otreated spent (64742	-58-1)	
	<b>Concentration/Conditions</b>	Notes
erio	79.6 mg/L [semi-static]	
romelas	3.2 mg/L [semi-static]	
: dewaxed (64742-62-	7)	
	<b>Concentration/Conditions</b>	Notes
s mykiss	>5000 mg/L	
na	>1000 mg/L	
1-14-alkyl esters, zinc	salts (68649-42-3)	
	<b>Concentration/Conditions</b>	Notes
romelas	1.0 - 5.0 mg/L [static]	
oromelas	10.0 - 35.0 mg/L [semi-static]	
na	1 - 1.5 mg/L	
No information avail	able for the product.	
No information avail	able for the product.	
No information avail	able for the product.	
No additional inform	nation is available.	
	life. <u>- Aquatic Toxicity</u> <b>ptreated spent (64742</b> perio promelas <b>dewaxed (64742-62-</b> s mykiss na <b>1-14-alkyl esters, zinc</b> promelas promelas na No information avail No information avail No information avail	life. - Aquatic Toxicity potreated spent (64742-58-1) rerio 79.6 mg/L [semi-static] promelas 3.2 mg/L [semi-static] a dewaxed (64742-62-7) concentration/Conditions s mykiss >5000 mg/L na >1000 mg/L 1-14-alkyl esters, zinc salts (68649-42-3) Concentration/Conditions romelas 1.0 - 5.0 mg/L [static] promelas 10.0 - 35.0 mg/L [semi-static]

## 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. Contact Safety-Kleen regarding proper recycling or disposal.

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 the waste code(s) applicable to the disposal of these products.

#### Section 14: Transport Information

Basic Description Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

DOT

	Proper Shipping Name:	No data available.
	UN Number:	No data available.
	Hazard Class:	No data available.
	Packing Group:	No data available.
TDG		
	Proper Shipping Name:	No data available.
	UN Number:	No data available.
	Hazard Class:	No data available.
	Packing Group:	No data available.

IMDG



Proper Shipping Name:	No data available.
UN Number:	No data available.
Hazard Class:	No data available.
Packing Group:	No data available.
Marine Pollutant:	No data available.
Proper Shipping Name:	No data available.
UN Number:	No data available.
Hazard Class:	No data available.
Packing Group:	No data available.

## Section 15: Regulatory Information

Volatile Organic Compounds (As Regulated): Negligible As per 40 CFR Part 51.100(s)

#### **Federal Regulations**

#### SARA 302/304

ΙΑΤΑ

**Component Analysis:** 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 311/312 Hazardous Categories

#### SARA Section 313

**Component Analysis:** 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)

## CERCLA

**Component Analysis:** 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.

**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.

#### **Component Analysis**

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



U.S. State Regulations: The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	РА	СА
Phosphorodithioic acid, O,O-di-C114-	68649-42-3	Yes <sup>1</sup>	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>
alkyl esters, zinc salts ( <sup>1</sup> related to:						
Zinc compounds)						

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

# Component Analysis

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.

Component Analysis: Not regulated.

#### Section 16 - Other Information

**Revision Information:** Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 5. <u>References</u>

ACGIH: American Conference of Governmental Industrial Hygienists

- AIHA: American Industrial Hygiene Association
- **CFR:** Code of Federal Regulations
- **DOT:** United States Department of Transportation
- **GHS:** Globally Harmonized System of Classification and Labeling of Chemicals
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transportation Association
- IDLH: Immediately Dangerous to Life or Health
- **IMDG:** International Maritime Dangerous Goods

**NFPA:** National Fire Protection Association

- NIOSH: National Institute for Occupational Safety and Health
- NTP: National Toxicology Program
- **OSHA:** Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- RTK: Right-to-Know
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short-term Exposure Limit
- TLV: Threshold limit value
- TSCA: Toxic Substances Control Act
- **TWA:** Time weighted average
- UN: United Nations
- WHMIS: Workplace Hazardous Materials Information System

**Disclaimer:** This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.