

## SAFETY DATA SHEET

# Section 1: Identification of the substance/mixture and company

Product Name: BOSS ZINC FREE 22 Recommended use: Hydraulic Oil

Class: Liquid

MANUFACTURERTELEPHONE NUMBERSBOSS LubricantsPhone: 1-403-279-22236303 30 Street SEEmergency # 1-800-844-9457Suite 112www.bosslubricants.comCalgary, AB T2C 1R4CHEMTREC: +1 (800) 424-9300

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### **Section 2: Hazards identification**

Classification of the substance or mixture: Not classified under GHS

**Hazards not otherwise classified:** Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US): Not classified under GHS

# Section 3: Composition/information on ingredients

Chemical Name	%	CAS #	G	HS Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-ba	ased	60 – 90	64742-54-7	Aquatic Acute 1; H400
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-k	pased	10 - 30	72623-87-1	Aquatic Chronic 1; H410
		1-5		Acute Tox. 3; H331
		0.1 - 1		Acute Tox. 3; H331
		0.01 - 0.1	-	Acute Tox. 4; H302
		<10ppm		Acute Tox. 3; H331
				STOT RE 2; H373
				Acute Tox. 4; H332

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

#### Section 4: First aid measures

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.

Eyes: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of

hazard.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.

**Ingestion:** Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care

provider with this SDS.

Most important symptoms and effects,

Acute: Not determined











**Delayed:** Not determined

**Note to Doctor:** Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

### **Section 5: Firefighting measures**

**Suitable and Unsuitable Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the

surface of the fire. Do not direct a stream of water into the hot burning liquid.

Fire and/or Explosion Hazards: Material may be ignited only if preheated to temperatures above the high flash

point, for example in a fire.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self- contained breathing

apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

#### Section 6: Accidental release measures

**General Measures:** No health affects expected from the cleanup of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

**Environmental precautions:** Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

Reference to other sections: Follow all protective equipment recommendations provided in Section 8.

#### Section 7: Handling and storage

Precautions for safe handling: Mildly irritating material. Avoid unnecessary exposure.

**Conditions for safe storage:** Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials: See Section 10.

Specific end use(s): Hydraulic Oil

### Section 8: Exposure controls/personal protection

#### **Control parameters**

Chemical NameOccupational Exposure LimitsValueOil mist, mineralOSHA PEL5 mg/m3

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based OSHA PEL 5 mg/m3

Oil mist, mineral ACGIH TLV-TWA

Chemical Name Occupational Exposure Limits

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ACGIH TLV-TWA 5 mg/m3

Oil mist, mineral ACGIH STEL 10 mg/m3



5 mg/m3

Value







Lubricating oils (petroleum), C20 hydrotreated neutral oil-based -50, ACGIH STEL 10 mg/m3

None. IDLH

None. OSHA PEL-Skin Notation

**Engineering Measures:** Use local exhaust ventilation or other engineering controls to minimize exposures and maintain

operator comfort.

**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or

sufficient to eliminate symptoms.

**Respirator Type(s):** None required where adequate ventilation is provided. If airborne concentrations are above the

applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

**Eye Protection:** No special requirements under normal industrial use.

**Skin Protection:** Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash

hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Neoprene, Nitrile

## Section 9: Physical and chemical properties

**Physical State:** Liquid **Color:** Colorless

Odor:MildOdor threshold:Not determinedpH:Not determinedFreezing point:Not determined

Boiling Point: Not determined Flash Point (°C): 215

Flash Point Method: COC Evaporation Rate: Not determined

**Upper Flammable/Explosive** 

**Limit, % in air:** = 10

Flammability (solid, gas):Not applicableVapor pressure:<0.20</th>Vapor Density:Not determinedRelative Density:0.85

Solubility in Water: Negligible; 0-1% Auto ignition Temperature: Not determined

**Decomposition Temperature:** Not determined **Viscosity (°C):** 21.12

Volatiles, % by weight: 0.000000 Octanol/Water Partition

Coefficient: Not determined

= 1

Lower Flammable/Explosive

Limit, % in air:

# Section 10: Stability and reactivity

**Reactivity:** No data available.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).

**Incompatible materials**: Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide









## **Section 11: Toxicological information**

**Ingestion Toxicity:** Likely to be practically non-toxic by ingestion based on animal data.

**Skin Contact:** This material is estimated to be slightly irritating (Primary Irritation Index is 0.5 - 3.0 [rabbits]). Can cause minor

skin irritation, defatting, and dermatitis.

Absorption: Likely to be practically non-toxic based on animal data.

Inhalation Toxicity: No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.

This material is estimated to be non-irritating eyes (Draize score <15 [rabbits]). No hazard in normal industrial **Eye Contact:** 

use.

Sensitization: Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components

may be a skin sensitizer.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or

genotoxic.

Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a **Carcinogenicity:** 

carcinogen by the International Agency for Research on Cancer.

**Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than

0.1% may cause birth defects.

Specific target organ toxicity-Single exposure: Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure

category.

Specific target organ toxicity-Repeated exposure: Non-hazardous under Specific Target Organ Systemic Toxicity Repeated

Exposure category.

**Aspiration toxicity:** Non-hazardous under Aspiration category.

Other information: No data available. **Agents Classified by IARC Monographs** IARC Group 1: Not applicable **IARC Group 2A:** Not applicable **IARC Group 2B:** Not applicable

**National Toxicity Program (NTP) Status** 

**Known Human Carcinogen:** Not applicable Reasonably Anticipated to be a Human Carcinogen: Not applicable

#### Section 12: Ecological information

**Acute Aquatic Ecotoxicity:** Non-hazardous under Aquatic Acute Environment category. **Chronic Aquatic Ecotoxicity:** Non-hazardous under Aquatic Chronic Environment category.

Persistence and degradability: Biodegrades slowly.

Bioaccumulative potential: Bioconcentration may occur.

Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

Results of PBT and vPvB assessment: No data available.

Other adverse effects: Not determined







# **Section 13: Disposal considerations**

**Disposal Methods:** Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Description for Spent Product: Spent or discarded material is non-hazardous according to environmental regulations.

**Contaminated packaging:** Recycle containers whenever possible.

### **Section 14: Transport information**

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

# **Section 15: Regulatory information**

**Chemical Inventories** 

**U.S. State Restrictions:** Not applicable

WHMIS: Uncontrolled product according to WHMIS classification criteria.

Chemical Name Regulation CAS # %

None. CERCLA

Diphenylamine SARA 313 122-39-4 0.01 - 0.1

None. SARA EHS

None.

U.S. State Regulations TSCA 12b

Chemical Name Regulation CAS # %

None. California Prop 65- Cancer

None. California Prop 65- Dev. Toxicity

None. California Prop 65- Reprod -fem

None. California Prop 65- Reprod-male

None. Massachusetts RTK List
None. New Jersey RTK List
None. Pennsylvania RTK List
None. Rhode Island RTK List

None. Minnesota Hazardous Substance List

HMIS Ratings: NFPA Ratings:

Health:1Health:1Fire:1Fire:1

Reactivity: 0

PPE: B Reactivity: 0

KEY:0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme









### **Section 16: Other information**

**Revision Date** 10/28/2015

Supersedes: None

**References:** 

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

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