MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	**Bel-Ray High Performance Fork Oil 20W**
Product Code	99340
MSDS Number	6407
Version #	1.0
Revision date	06-10-2010
Product use	Lubricant
Manufacturer information	Bel-Ray Company, Inc. P.O. Box 526 Farmingdale, NJ 07727 United States of America +1 732 938 2421 CHEMTREC: +1 703-527-3887 (outside USA) CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

Emergency overview	Irritating to skin. Irritating to respiratory system. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Skin contact.
Eyes	Contact with eyes may cause irritation.
Skin	Irritating to skin.
Inhalation	Irritating to respiratory system. Prolonged inhalation may be harmful.
Ingestion	Do not ingest.
Signs and symptoms	Irritation of eyes and mucous membranes.
Potential environmental effects	Not expected to be harmful to aquatic organisms.

3. Composition / Information on Ingredients

Hazardous components	**CAS #**	**Percent**
ZINC ALKYL DITHIOPHOSPHATE	68649-42-3	1 - 2.5
Non-hazardous components	**CAS #**	**Percent**
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-54-7		>= 80
TRICRESYL PHOSPHATE	1330-78-5	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.

General advice Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. Not combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Fire fighting equipment / instructions Not available.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

Hazardous combustion products May include oxides of nitrogen. Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift.

Methods for cleaning up Should not be released into the environment.

Large Spills: Dike far ahead of spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. Hydrogen sulfide (H2S) may be given off when this material is heated. Do not depend on sense of smell for warning.

Storage Class IIIB Combustible Liquid.

Keep away from heat, sparks and open flame. Room temperature - normal conditions. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value	Form
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-54-7	STEL	10.0000 mg/m3	Mist.
	TWA	5.0000 mg/m3	Mist.

U.S. - OSHA

Components	Type	Value	Form
Interchangeable base oils, one or more: 64742-01-4, 64741-88-4, 64742-54-7	PEL	5.0000 mg/m3	Mist.
		2000.0000 mg/m3	
		500.0000 ppm	
	TWA	5.0000 mg/m3	Mist.
		400.0000 ppm	

Components	Type	Value	Form
		1600.0000 mg/m3	

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection Avoid contact with eyes. Chemical goggles are recommended.

Skin protection Avoid contact with the skin. Wear suitable protective clothing.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA).

General hygiene considerations Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Oily.

Color Green.

Odor Mild.

Odor threshold Not available.

Physical state Liquid

Form Liquid.

pH Not available.

Melting point/Freezing point Not available.

Boiling point 465.8 °F (241 °C) estimated

Flash point 359.6 °F (182 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Vapor pressure 0.1289 hPa estimated

Density 900 kg/m³

Vapor density Not available.

Specific gravity 0.9

Relative density 0.894 g/cm3 estimated

Solubility (water) Not available.

Solubility (other) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 500 °F (260 °C) estimated

Decomposition temperature Not available.

VOC 0.0053 % estimated

Viscosity 74 cSt @ 104 °F (40 °C)

Percent volatile 0.006799 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks.

Hazardous decomposition products Irritants. Nitrogen oxides (NOx). May include oxides of phosphorus. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide. Mercaptans.

11. Toxicological Information

Toxicological data

Product	Test Results
Bel-Ray High Performance Fork Oil 20W (Mixture)	Acute Dermal LD50 Rabbit: 4215 mg/kg estimated
	Acute Inhalation LC50 Rat: 1110 mg/l estimated
	Acute Oral LD50 Rat: 4197 mg/kg estimated

* Estimates for product may be based on additional component data not shown.

Acute effects Causes skin irritation. Respiratory tract irritation.

Local effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Irritating to respiratory system. Irritating to skin.

Chronic effects Prolonged inhalation may be harmful.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Bel-Ray High Performance Fork Oil 20W (Mixture)	EC50 Daphnia: 165 mg/l 48.00 hours estimated
	LC50 Fish: 36746 mg/l 96.00 hours estimated
Components	**Test Results**
TRICRESYL PHOSPHATE (1330-78-5)	EC50 Water flea (Daphnia magna): 2.3 - 4.5 mg/l 48.00 hours
	LC50 Bluegill (Lepomis macrochirus): 0.061 - 0.11 mg/l 96.00 hours

* Estimates for product may be based on additional component data not shown.

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose of in accordance with local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

ZINC ALKYL DITHIOPHOSPHATE (CAS 68649-42-3) 1.0 % N982

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ZINC ALKYL DITHIOPHOSPHATE (CAS 68649-42-3) Listed. N982

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ARSENIC (CAS 7440-38-2)	Listed: February 27, 1987 Carcinogenic.
CADMIUM AND COMPOUNDS (CAS 7440-43-9)	Listed: October 1, 1987 Carcinogenic.
ETHYLBENZENE (CAS 100-41-4)	Listed: June 11, 2004 Carcinogenic.
LEAD (CAS 7439-92-1)	Listed: October 1, 1992 Carcinogenic.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

CADMIUM AND COMPOUNDS (CAS 7440-43-9)	Listed: May 1, 1997 Developmental toxin.
LEAD (CAS 7439-92-1)	Listed: February 27, 1987 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

LEAD (CAS 7439-92-1)	Listed: February 27, 1987 Female reproductive toxin.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

CADMIUM AND COMPOUNDS (CAS 7440-43-9)	Listed: May 1, 1997 Male reproductive toxin.
LEAD (CAS 7439-92-1)	Listed: February 27, 1987 Male reproductive toxin.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

ZINC ALKYL DITHIOPHOSPHATE (CAS 68649-42-3)	500 LBS

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 1
Instability: 0

Disclaimer

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date

06-10-2010