



SAFETY DATA SHEET

1. Product and company identification

Product name Bel-Ray High Performance Fork Oil 10W
Product code 99320
SDS number 6784

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Recommended use and Limitations on use

Recommended use Lubricants, Greases and Release products Hydraulic fluids

2. Hazards identification

GHS classification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 3
	Serious eye damage/eye irritation	Category 2B
	Reproductive toxicity	Category 1B
	Specific target organ toxicity following single exposure	Category 2 (Lung)
	Specific target organ toxicity following repeated exposure	Category 1 (Lung, skin)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3 (98.97% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.)
	Hazardous to the aquatic environment, long-term hazard	Category 4 (18.15% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.)

Label elements

Symbols



Signal word

Danger

Hazard statement

Causes mild skin irritation. Causes eye irritation. May damage fertility or the unborn child. May cause damage to organs (Lung). Causes damage to organs (Lung, skin) through prolonged or repeated exposure. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

Precautionary statement

Prevention

Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Use personal protective equipment as required.

Response	If medical advice is needed, have product container or label at hand. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Substance or mixture	Mixture	
Chemical property	CAS Number	Concentration (%)
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - < 100
Residual Oils (petroleum), Solvent-refined	64742-01-4	0 - < 100
Phosphorodithioic Acid, O,o-di-c1-14-alkyl Esters, Zinc Salts	68649-42-3	< 1
Tris(methylphenyl) Phosphate	1330-78-5	< 1
Other components below reportable levels		1 - < 3

4. First aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with warm water and soap. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person.
Potential delayed effects	Not available.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention.
Notes to physician	Not available.

5. Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry powder. Carbon dioxide (CO2).
Extinguishing media to avoid	Water. Do not use water jet as an extinguisher, as this will spread the fire.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	None.
Special fire fighting procedures	None.
Protection of fire-fighters	Water runoff can cause environmental damage.
Hazards from combustion products	Carbon monoxide and carbon dioxide.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. 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. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Remove sources of ignition. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13.

7. Handling and storage

Handling

Precautions	Obtain special instructions before use. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Safe handling advice	Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing. Avoid contact with eyes. Avoid prolonged exposure. Use personal protection recommended in Section 8 of the MSDS.
Prevention of fire and explosion	No specific recommendations.

Storage

Suitable storage conditions	Store locked up. Room temperature - normal conditions. Keep container tightly closed. Keep out of the reach of children.
Incompatible materials	None known.
Safe packaging materials	Keep in original container.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.

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. Provide adequate general and local exhaust ventilation.

Personal protective equipment

Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Skin protection	Normal work clothing (long sleeved shirts and long pants) is recommended.
Eye/face protection	Not normally needed.
Radioactive or thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid. Liquid.
Colour	Green. Green.

Odour

Petroleum
Petroleum

pH	Not available.
Odour threshold	Not available.
Melting point/freezing point	Not available.
Flash point	185.00 °C (365.00 °F) Pensky-Martens Closed Cup
Auto-ignition temperature	260 °C (500 °F) estimated
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit	Not available.
Vapour pressure	0.13 hPa estimated
Density	866.00 kg/m ³
Vapour density	Not available.
Evaporation rate	Not available.
Relative density	Not available.
Solubility	Negligible
Solubility (other)	Oil
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	32 cSt ASTM D445
Percent volatile	< 0.1 %
Other data	
Flammability class	Combustible IIIB estimated
Specific gravity	0.866
Viscosity temperature	40 °C (104 °F)
VOC (Weight %)	< 0.1 %

10. Stability and reactivity

Stability	Material is stable under normal conditions.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Incompatible materials	None known.
Hazardous decomposition products	Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	None.

11. Toxicological information

Product	Species	Test results
Bel-Ray High Performance Fork Oil 10W (Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	10958.7324 mg/kg, estimated
<i>Inhalation</i>		
LC50	Rat	2219.9541 mg/l, estimated
<i>Oral</i>		
LD50	Rat	10896.7305 mg/kg, estimated
<i>Other</i>		
LD50	Rat	71671.3047 mg/kg, estimated

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

Routes of exposure	Inhalation. Skin contact. Eye contact.
Symptoms	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioural changes. Coughing. Oedema. Liver enlargement. Jaundice. Proteinuria. Defatting of the skin. Skin irritation. Irritant effects. Rash.

Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/irritation	Causes eye irritation.
Respiratory sensitiser	Not available.
Skin sensitiser	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Toxic to reproduction	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause damage to organs. Lung.
Specific target organ toxicity - repeated exposure	Causes damage to organs. Lung, skin.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.
Relevant negative data	Not available.

12. Ecological information

Ecotoxicological data

Product	Species	Test results
Bel-Ray High Performance Fork Oil 10W (Mixture)		
Crustacea EC50	Daphnia	259.7475 mg/l, 48 hours, estimated
Fish LC50	Fish	76712.4375 mg/l, 96 hours, estimated
Components	Species	Test results
Tris(methylphenyl) Phosphate (1330-78-5)		
Aquatic		
Crustacea EC50	Water flea (Daphnia magna)	2.3 - 4.5 mg/l, 48 hours
Fish LC50	Bluegill (Lepomis macrochirus)	0.061 - 0.11 mg/l, 96 hours

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

Ecotoxicity Accumulation in aquatic organisms is expected. Not expected to be harmful to aquatic organisms. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Tris(methylphenyl) Phosphate 5.11

Mobility This product is miscible in water.

Other hazardous effects Not available.

13. Disposal considerations

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Not available.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4)	May be used as a single component chemical under an appropriate group standard
Phosphorodithioic Acid, O,o-di-c1-14-alkyl Esters, Zinc Salts (CAS 68649-42-3)	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	May be used as a single component chemical under an appropriate group standard
Tris(methylphenyl) Phosphate (CAS 1330-78-5)	HSNO Approved

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	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
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)

16. Other information

References Not available.

Issued by
Not available.

Prepared by
Not available.

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.

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