



SAFETY DATA SHEET

1. Product and company identification

Product name Bel-Ray SL-2 Semi-Synthetic 2T Engine Oil
Product code 99460
SDS number 6939

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Recommended use and Limitations on use

Not available.

2. Hazards identification

GHS classification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Germ cell mutagenicity	Category 2
	Specific target organ toxicity following single exposure	Category 2 (Lung)
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity following single exposure	Category 3 narcotic effects
	Specific target organ toxicity following repeated exposure	Category 1 (Lung, skin)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements

Symbols None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention Obtain special instructions before use. Read label before use. Do not handle until all safety precautions have been read and understood. Wear eye/face protection. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Keep out of reach of children. Contaminated work clothing should not be allowed out of the workplace.

Response	IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
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 (%)
Butene, Homopolymer		9003-29-6	30 - < 40
Hydrotreated Light Distillates (petroleum)		64742-47-8	30 - < 40
Distillates (petroleum), Hydrotreated Heavy Paraffinic		64742-54-7	10 - < 20
Distillates (petroleum), Solvent-refined Heavy Paraffinic		64741-88-4	10 - < 20
R76640 - MINERAL OILS		Proprietary	3 - < 5
Other components below reportable levels			10 - < 20

4. First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control centre immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
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 immediately.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Never give liquid to an unconscious person.
Potential delayed effects	Not available.
Personal protection for first-aid responders	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
Notes to physician	Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media	Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).
Extinguishing media to avoid	Do not use a solid water stream as it may scatter and spread fire.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	None.
Special fire fighting procedures	In the event of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water until well after the fire is out.
Protection of fire-fighters	In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue. 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. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Do not touch or walk through spilled material. 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.

Spill cleanup methods

Remove sources of ignition. Dike far ahead of spill for later disposal. Collect spillage. Following product recovery, flush area with water. Prevent product from entering drains. Wipe up with absorbent material (e.g. cloth, fleece).

Never return spills in original containers for re-use.

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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Prevention of fire and explosion

Not available.

Storage

Suitable storage conditions

Store locked up. Room temperature - normal conditions. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children.

Incompatible materials

Strong oxidizing agents.

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), Hydrotreated Heavy Paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
R76640 - MINERAL OILS (Proprietary)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

ACGIH

Components	Type	Value	Form
Hydrotreated Light Distillates (petroleum) (64742-47-8)	TWA	200 mg/m3	As Total Hydrocarbon Vapor.

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

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
R76640 - MINERAL OILS (Proprietary)	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.
Personal protective equipment	
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA).
Skin protection	Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Eye/face protection	Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.
Radioactive or thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practices.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid. Liquid.
Colour	Blue. Blue.

Odour Characteristic.
Characteristic.

pH Not available.

Odour threshold Not available.

Melting point/freezing point Not available.

Boiling point, Initial boiling point, and boiling range 200 °C (392 °F)

Flash point 86.00 °C (186.80 °F) Pensky-Martens Closed Cup

Auto-ignition temperature 210 °C (410 °F) estimated

Flammability (solid, gas) Not available.

Flammability limit - lower (%) 0.7 % estimated

Flammability limit - upper (%) 5 % estimated

Explosive limit Not available.

Vapour pressure Not available.

Density 862.00 kg/m³

Vapour density Not available.

Evaporation rate Not available.

Relative density Not available.

Solubility Negligible

Solubility (other) Oil
Solvents

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

Decomposition temperature Not available.

Viscosity 40.66 cSt

Percent volatile 0.02 % estimated

Other data

Flammability class	Combustible IIIA estimated
Specific gravity	0.862
Viscosity temperature	40 °C (104 °F)
VOC (Weight %)	30 %

10. Stability and reactivity

Stability	Risk of ignition. Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid high temperatures.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritants. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological information

Product	Species	Test results
Bel-Ray SL-2 Semi-Synthetic 2T Engine Oil (Mixture)		
Acute		
<i>Other</i>		
LD50	Rat	23170.7324 mg/kg, estimated
* Estimates for product may be based on additional component data not shown.		
Routes of exposure	Inhalation. Skin contact. Eye contact.	
Symptoms	Not available.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation. None known.	
Skin sensitiser	May cause an allergic skin reaction. None known.	
Germ cell mutagenicity	Suspected of causing genetic defects. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	May cause cancer. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable as to carcinogenicity to humans.	
Toxic to reproduction	Contains no ingredient listed as toxic to reproduction	
Specific target organ toxicity - single exposure	Central nervous system. Lungs. Respiratory tract.	
Specific target organ toxicity - repeated exposure	Lungs. Skin.	
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.	
Relevant negative data	Not available.	
Other information	Symptoms may be delayed.	

12. Ecological information

Ecotoxicological data		
Components	Species	Test results
Hydrotreated Light Distillates (petroleum) (64742-47-8)		
Aquatic		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.4 mg/l, 4 days
* Estimates for product may be based on additional component data not shown.		
Ecotoxicity	Components of this product are hazardous to aquatic life.	
Persistence and degradability	Not available.	
Bioaccumulation		
Mobility	Not available.	
Other hazardous effects	Not available.	

13. Disposal considerations

Disposal methods/information

Contract with a disposal operator licensed by the Law on Disposal and Cleaning. 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 of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

Special precautions

Not available.

14. Transport information

International regulations

IATA

UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Special transport precautions and conditions	Not available.

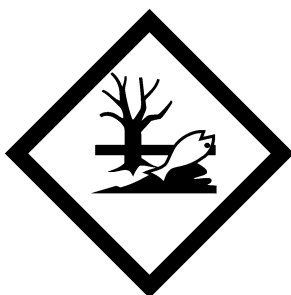
IMDG

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, n.o.s., Marine pollutant
Hazard class	9
Packing group	III
EmS No.	F-A, S-F
Marine pollutant	Yes
Special transport precautions and conditions	Not available.

IATA; IMDG



Marine pollutant



15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Butene, Homopolymer (CAS 9003-29-6)	May be used as a single component chemical under an appropriate group standard
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	May be used as a single component chemical under an appropriate group standard
Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4)	May be used as a single component chemical under an appropriate group standard
Hydrotreated Light Distillates (petroleum) (CAS 64742-47-8)	May be used as a single component chemical under an appropriate group standard

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)

16. Other information**References**

ACGIH
 EPA: ACQUIRE database
 NLM: Hazardous Substances Data Base
 US. IARC Monographs on Occupational Exposures to Chemical Agents
 HSDB® - Hazardous Substances Data Bank
 JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections
 JCIA GHS Guideline, October 2008
 IARC Monographs. Overall Evaluation of Carcinogenicity
 National Toxicology Program (NTP) Report on Carcinogens
 ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
 Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits

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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