1. Product and company identification

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

Bel-Ray Company PTY Limited
4 Ginger Street
Paget, QLD 4740 Australia
749525778
CHEMTREC: 1800 069 100 (AUS)

Bel-Ray Company, Inc.
P.O. Box 526
Farmingdale, NJ 07727
United States of America
+1 732 938 2421
CHEMTREC: 800-424-9300 (USA)
CHEMTREC: +1 703-527-3887 (outside USA - call collect)

Recommended use and Limitations on use

Not available.

2. Hazards identification

GHS classification

Physical hazards
Flammable liquids Category 4
Skin corrosion/irritation Category 2

Health hazards
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 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

<table>
<thead>
<tr>
<th>Substance or mixture</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butene, Homopolymer</td>
<td>9003-29-6</td>
<td>30 - &lt; 40</td>
</tr>
<tr>
<td>Hydrotreated Light Distillates (petroleum)</td>
<td>64742-47-8</td>
<td>30 - &lt; 40</td>
</tr>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Paraffinic</td>
<td>64742-54-7</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>Distillates (petroleum), Solvent-refined Heavy Paraffinic</td>
<td>64741-88-4</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>R76640 - MINERAL OILS</td>
<td>Proprietary</td>
<td>3 - &lt; 5</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td>10 - &lt; 20</td>
<td></td>
</tr>
</tbody>
</table>

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


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**


**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)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>R76640 - MINERAL OILS (Proprietary)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>R76640 - MINERAL OILS (Proprietary)</td>
<td>STEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

**ACGIH**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Light Distillates (petroleum) (64742-47-8)</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>As Total Hydrocarbon Vapor.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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<td>TWA</td>
<td>5 mg/m3</td>
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<td>Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
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<td>R76640 - MINERAL OILS (Proprietary)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>
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.
Colour: Blue.

Odour: 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: Not available.
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bel-Ray SL-2 Semi-Synthetic 2T Engine Oil (Mixture)</td>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>23170.7324 mg/kg, estimated</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Ecotoxicological data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Components</strong></td>
</tr>
<tr>
<td>Hydrotreated Light Distillates (petroleum) (64742-47-8)</td>
</tr>
<tr>
<td>Fish</td>
</tr>
</tbody>
</table>

* 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**
Not available.

**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

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

*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: AQUIRE 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
- JICA 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.

Issue date

21-August-2013

Revision date

21-August-2013