



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	Bel-Ray Si-7 Full Synthetic 2T Engine Oil
Product Code	99440
MSDS Number	6421
Version #	1.0
Revision date	06-18-2010
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	CAUTION Combustible liquid and vapor. 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. This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
OSHA regulatory status	
Potential health effects	
Routes of exposure	Inhalation.
Eyes	Contact with eyes may cause irritation.
Skin	May cause skin irritation in susceptible persons.
Inhalation	May be irritating. Prolonged inhalation may be harmful.
Ingestion	Health injuries are not known or expected under normal use.
Target organs	Central nervous system.
Chronic effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.
Signs and symptoms	Narcosis. Decrease in motor functions. Behavioral changes. Irritation of nose and throat. Irritation of eyes and mucous membranes.
Potential environmental effects	May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	20 - 40
Interchangeable base oils, one or more: 64742-54-7, 64742-65-0, 64741-88-4		20 - 40

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	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth. 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 CENTER or doctor/physician. Never give liquid to an unconscious person.

Notes to physician

Symptoms may be delayed.

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

Combustible by OSHA criteria. NFPA Rating Fire = 2. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Fire fighting equipment/instructions

Not available.

Specific methods

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.

Hazardous combustion products

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. Do not smoke. All equipment used when handling the product must be grounded. Avoid prolonged exposure. Avoid release to the environment.

Storage

Class IIIB Combustible Liquid.

The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Room temperature - normal conditions. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

Type

Value

Form

Interchangeable base oils, one or more: 64742-54-7, 64742-65-0, 64741-88-4

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: 64742-54-7,
64742-65-0, 64741-88-4

PEL

5.0000 mg/m3

Mist.

TWA

5.0000 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**Eye / face protection**

Not normally needed.

Skin protection

No special protective equipment required.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations

When using do not smoke.

9. Physical & Chemical Properties**Appearance**

Oily.

Color

Blue.

Odor

Characteristic.

Odor threshold

Not available.

Physical state

Liquid

Form

Liquid.

pH

Not available.

Melting point/Freezing point

Not available.

Boiling point

392 °F (200 °C)

Flash point

194 °F (90 °C) Pensky-Martens Closed Cup

Evaporation rate

Not available.

Flammability limits in air, upper, % by volume

5 estimated

Flammability limits in air, lower, % by volume

0.6 estimated

Vapor pressure

0.0129 hPa estimated

Density866 kg/m³**Vapor density**

Not available.

Specific gravity

0.866

Relative density

0.8356 lb/cu ft estimated

Solubility (water)

Negligible

Solubility (other)

Oil
Solvents

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

483.8 °F (251 °C) estimated

Decomposition temperature

Not available.

VOC

30 %

Viscosity

43.62 cSt @ 104 °F (40 °C)

Percent volatile

30.52 % estimated

10. Chemical Stability & Reactivity Information**Chemical stability**

Risk of ignition. Material is stable under normal conditions.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Irritants. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological Information

Toxicological data**Product****Test Results**

Bel-Ray Si-7 Full Synthetic 2T Engine Oil (Mixture)

Acute Dermal LD50 Rabbit: 18950 mg/kg estimated

Acute Inhalation LC50 Rat: 55738 mg/m³ estimated

Acute Inhalation LC50 Rat: 309 mg/l estimated

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

Local effects

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes may cause irritation. May cause skin irritation.

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.

Carcinogenicity

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

Neurological effects

Hazardous by OSHA criteria.

Further information

Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data**Product****Test Results**

Bel-Ray Si-7 Full Synthetic 2T Engine Oil (Mixture)

LC50 Fish: 11.15 mg/l 96.00 hours estimated

Components**Test Results**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (64742-47-8)

LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss):
2.9 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**Basic shipping requirements:****UN number** NA1993**Proper shipping name** Combustible liquid, n.o.s. (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)**Hazard class** Comb liq**Subsidiary hazard class** None**Packing group** III**Additional information:****Special provisions** IB3, T1, T4, TP1**Basic shipping requirements:****Labels required** None**Additional information:****Packaging exceptions** 150

Packaging non bulk	203
Packaging bulk	241
ERG number	128

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Further information FOR DOT: This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less.

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.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
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	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
New Zealand	New Zealand Inventory	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.

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

ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004 Carcinogenic.

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 10000 LBS
(CAS 64742-47-8)

US - Pennsylvania RTK - Hazardous Substances: Listed substance

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT Listed.
(CAS 64742-47-8)
Interchangeable base oils, one or more: 64742-54-7, Listed.
64742-65-0, 64741-88-4 (CAS)

16. Other Information

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

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

NFPA ratings

Health: 1
Flammability: 2
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.

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