PELORAV POTAL PERFORMANCE LUBRICANTS

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 10W-40

 Product Code
 99120

 MSDS Number
 6397

 Version #
 1.0

Revision date 06-14-2010
Product use Lubricant

Manufacturer information Bel-Ray Company, Inc.

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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 eyes and skin. 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 statusThis product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposureSkin contact. Eye contact.EyesCauses eye irritation.SkinIrritating to skin.

Inhalation Prolonged inhalation may be harmful. Health injuries are not known or expected under normal use.

Ingestion Health injuries are not known or expected under normal use.

Signs and symptoms Irritation of eyes and mucous membranes.

Potential environmentalNot expected to be harmful to aquatic organisms.

effects

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent	
ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO)	15890-25-2	0.1 - 1	
Non-hazardous components	CAS#	Percent	
Interchangeable base oils, one or more: 64741-88-4, 64742-52-5, 64742-54-7		>= 80	

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. 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.

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5. Fire Fighting Measures

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

Not available.

Extinguishing media

Suitable extinguishing

media

Specific methods

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

Fire fighting

equipment/instructions

Hazardous combustion

products

May include oxides of nitrogen. Carbon monoxide and carbon dioxide.

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

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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces.

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

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use water

spray to reduce vapors or divert vapor cloud drift.

Methods for cleaning up Should not be released into the environment. Dike far ahead of spill for later disposal. Avoid dust

formation. Wipe up with absorbent material (e.g. cloth, fleece). 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 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.

Keep away from heat, sparks and open flame. Room temperature - normal conditions. Keep Storage

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	Туре	Value	Form
ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (15890-25-2)	TWA	0.5000 mg/m3	
Interchangeable base oils, one or more: 64741-88-4, 64742-52-5, 64742-54-7	STEL	10.0000 mg/m3	Mist.
•	TWA	5.0000 mg/m3	Mist.
U.S OSHA			
Components	Туре	Value	Form
ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (15890-25-2)	PEL	0.5000 mg/m3	
	TWA	0.5000 mg/m3	
Interchangeable base oils, one or more: 64741-88-4, 64742-52-5, 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	
		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.

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Personal protective equipment

Eye / face protection Avoid contact with eyes.

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

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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 Amber. Odor Petroleum **Odor threshold** Not available.

Physical state Liquid **Form** Liquid.

Hq Not available. Melting point/Freezing point Not available.

Boiling point 199.4 °F (93 °C) estimated

Flash point 377.6 °F (192 °C) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability limits in air,

upper, % by volume

50 % v/v estimated

Flammability limits in air,

lower, % by volume

1 % v/v estimated

Vapor pressure 0.0737 hPa estimated

879 kg/m³ Density Vapor density Not available.

Specific gravity 0.879

Relative density Not available. Solubility (water) Negligible Oil Solubility (other)

Solvents

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

500 °F (260 °C) estimated

Decomposition temperature

Not available.

VOC 0.751998 % estimated 98.4 cSt @ 104 °F (40 °C) Viscosity Percent volatile 0.0846 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks.

Hazardous decomposition

Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon

products

dioxide.

11. Toxicological Information

Toxicological data

Product	Test Results
Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 10W-40 (Mixture)	Acute Dermal LD50 Rabbit: 3374 mg/kg estimated
	Acute Inhalation LC50 Rat: 618 mg/l estimated
	Acute Oral LD50 Rat: 2364 g/kg estimated

Components Test Results

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (15890-25-2) Acute Dermal LD50 Rabbit: > 16000 mg/kg

Acute Oral LD50 Rat: > 16000 mg/kg

Acute effects Causes skin and eye irritation.

Local effects Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Irritating to eyes.

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 EXP Synthetic Ester Blend 4T Engine Oil 10W-40 (Mixture) EC50 Daphnia: 684 mg/l 48.00 hours estimated

LC50 Fish: 2232 mg/l 96.00 hours estimated

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 instructionsDo 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 regulationsThis 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

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (CAS 1.0 % N010 15890-25-2)

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

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (CAS Listed. N010 15890-25-2)

CERCLA (Superfund) reportable quantity

None

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

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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

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	Yes

(EINECS)

Korea Existing Chemicals List (ECL)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

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)

CADMIUM AND COMPOUNDS (CAS 7440-43-9)

Listed: February 27, 1987 Carcinogenic.

Listed: October 1, 1987 Carcinogenic.

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.
Listed: February 27, 1987 Male reproductive toxin.

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

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (CAS 500 LBS

15890-25-2)

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

DisclaimerBel-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 06-14-2010

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