PELORAV PEROMANCE PEROMANCE LUBRICANTS

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Bel-Ray Shop Oil 10W-40

 Product Code
 99433

 MSDS Number
 6615

 Version #
 2.1

Revision date 04-12-2012

Product use 4 Stroke Shop Engine Oil
Manufacturer information Bel-Ray Company, Inc.

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CHEMTREC: +1 703-527-3887 (outside USA)

CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

Emergency overview Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

OSHA regulatory statusThis product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material

in contact with eyes.

Skin Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Avoid contact with the skin.

InhalationProlonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.IngestionComponents of the product may be absorbed into the body by ingestion. Do not ingest.

Target organs Eyes. RESPIRATORY SYSTEM. Skin.

Chronic effects Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

lermatitis

Signs and symptoms Corneal damage. Conjunctivitis. Defatting of the skin. Skin irritation. Rash.

Potential environmental

effects the er

Components of this product are hazardous to aquatic life. May cause long-term adverse effects in

the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	0 - 100
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic	64742-65-0	0 - 100
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - 100
Residual Oils (petroleum), Solvent-refined	64742-01-4	0 - 100

Composition comments IP 346: < 3.0% DMSO extract for all base oil substances.

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 immediately.

Skin contact Wash off with warm water and soap.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

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Ingestion Rinse mouth thoroughly. Do not induce vomiting. Never give liquid to an unconscious person.

Notes to physician

Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire Fighting Measures

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

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

Hazardous combustion

products

Move containers from fire area if you can do so without risk.

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep

upwind. Keep out of low areas.

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. Prevent

entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Should not be released into the environment. 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.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the

MSDS.

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 get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid release to the environment. Hydrogen sulfide (H2S) may be given

off when this material is heated. Do not depend on sense of smell for warning.

Storage Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container

tightly closed. Keep away from food, drink and animal feedingstuffs. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	PEL	5 mg/m3	Mist.	
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (64742-65-0)	PEL	5 mg/m3	Mist.	
, , , , , , , , , , , , , , , , , , ,		2000 mg/m3		

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form	
		500 ppm		
Distillates (petroleum), PEL Solvent-refined Heavy Paraffinic (64741-88-4)	PEL	5 mg/m3	Mist.	
		2000 mg/m3		
		500 ppm		
Residual Oils (petroleum), Solvent-refined (64742-01-4)	PEL	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

Eye / face protection

Do not get in eyes. Chemical goggles are recommended. Eye wash fountain is recommended.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

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

certified respirators.

General hygiene considerations

Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Oily. Physical state Liquid. **Form** Liquid. Color Amber. Odor Petroleum **Odor threshold** Not available. Not available.

Vapor pressure 0.13 hPa estimated

876 kg/m³ Density Vapor density Not available. Melting point/Freezing point Not available. Solubility (water) Negligible Solubility (other) Oil

Specific gravity 0.88

Relative density Not available.

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

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

VOC < 0.1 %

94.96 cSt ASTM D445 **Viscosity** Percent volatile 0.08 % estimated

Other data

pН

Flammability class Combustible IIIB estimated

Viscosity temperature 104 °F (40 °C)

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10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Not available.

Hazardous decomposition

At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Hydrogen sulfide.

products

Mercaptans.

11. Toxicological Information

Toxicological data

Product	Test Results	
Bel-Ray Shop Oil 10W-40 (Mixture)	Acute Dermal LD50 Rabbit: 3669.72 mg/kg estimated	
	Acute Oral LD50 Rat: 4053.51 mg/kg estimated Acute Oral LD50 Rat: 1291.99 g/kg estimated	

Local effects Components of the product may be absorbed into the body through the skin. Contact may irritate

or burn eyes.

Chronic effects Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause

chronic effects.

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

ACGIH Carcinogens

Distillates (petroleum), Solvent-refined Heavy Paraffinic A4 Not classifiable as a human carcinogen. MINERAL OIL, EXCLUDING METAL WORKING FLUIDS,

PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64741-88-4)

12. Ecological Information

Ecotoxicological data

Product	Test Results
Bel-Ray Shop Oil 10W-40 (Mixture)	EC50 Daphnia: 633.07 mg/l 48 hours estimated
	LC50 Fish: 527.43 mg/l 96 hours estimated

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

Ecotoxicity Components of this product are hazardous to aquatic life.

Environmental effects Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Material name: Bel-Ray Shop Oil 10W-40 MSDS US

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

One or more components are not listed on TSCA.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

No

chemical

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
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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

Toxic Substances Control Act (TSCA) Inventory

State regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - New Jersey RTK - Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Paraffinic Listed.

(CAS 64742-54-7)

United States & Puerto Rico

Distillates (petroleum), Solvent-refined Heavy Paraffinic Listed.

(CAS 64741-88-4)

Residual Oils (petroleum), Solvent-refined (CAS Listed.

64742-01-4)

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Paraffinic

(CAS 64742-54-7)

Residual Oils (petroleum), Solvent-refined (CAS Listed.

64742-01-4)

16. Other Information

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

HMIS® ratings Health: 1*

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 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.

Listed.

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Yes

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

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