# PELORAN TOTAL PERFORMANCE LUBRICANTS

## MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name V-Twin Semi-Synthetic Engine Oil 20W-50

 Product Code
 96910

 MSDS Number
 6262

 Version #
 1.1

Revision date 01-11-2012

Product use 4T Motorcycle Engine Oil
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

Harmful in contact with eyes. Cancer hazard. 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 status**This 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.

May cause skin irritation in susceptible persons. Avoid contact with the skin.

**Inhalation** May cause cancer by inhalation. Prolonged inhalation may be harmful. Avoid breathing

dust/fume/gas/mist/vapors/spray.

**Ingestion** Components 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

dermatitis.

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

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

**effects** the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	0 - 90
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - 90
Paraffin Oils (petroleum), Catalytic Dewaxed Light	64742-71-8	0 - 90
White Mineral Oil (petroleum)	8042-47-5	0 - 90
Antimony, Tris(dipentylcarbamodithioato)	15890-25-2	1 - 2.5
Other components below reportable levels		10 - 20

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#### 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** Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For

minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation

develops and persists.

**Inhalation** Move to fresh air. 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 if symptoms

develop or persist.

**Ingestion** Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that

stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a

poison control center immediately. Never give liquid to an unconscious person.

**Notes to physician** In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Symptoms may be delayed.

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

protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness

of breath, give oxygen. Keep victim warm. Keep victim under observation.

## 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 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.

May include oxides of nitrogen. 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. Ventilate closed spaces before entering them. 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. 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: Wipe up with absorbent material (e.g. cloth, fleece). 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 breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid prolonged exposure. Avoid

release to the environment.

**Storage** Keep away from heat, sparks and open flame. 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. Use care in handling/storage.

# 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

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Components	Туре	Value	Form
Distillates (petroleum),	TWA	5 mg/m3	Inhalable Fraction.
Hydrotreated Heavy			

Naphthenic (64742-52-5)

## **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Antimony, Tris(dipentylca rbamodithioato) (15890-25-2)	TWA	0.5 mg/m3	
Paraffin Oils (petroleum), Catalytic Dewaxed Light (64742-71-8)	TWA	5 mg/m3	Inhalable fraction.
White Mineral Oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

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

Type

Components	туре	value	Form
Antimony, Tris(dipentylca rbamodithioato) (15890-25-2)	PEL	0.5 mg/m3	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Paraffin Oils (petroleum), Catalytic Dewaxed Light (64742-71-8)	PEL	5 mg/m3	Mist.
White Mineral Oil (petroleum) (8042-47-5)	PEL	5 mg/m3	Mist.

## **Engineering controls**

Components

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.

Value

Form

#### 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** Wear positive pressure self-contained breathing apparatus (SCBA).

General hygiene Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance

**considerations** with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Appearance Not available.

Material name: V-Twin Semi-Synthetic Engine Oil 20W-50

Liquid. Physical state **Form** Liquid.

Color Not available. Odor Not available. Odor threshold Not available. pН Not available. Vapor pressure 0 hPa estimated Density 890 kg/m3 Vapor density Not available.

> 564.8 °F (> 296 °C) **Boiling point** 

Melting point/Freezing point Not available. Solubility (water) Negligible Solubility (other) Oil 0.89 Specific gravity

**Relative density** Not available.

Flash point 384.8 °F (196 °C) Pensky-Martens Closed Cup

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

**Auto-ignition temperature** 500 °F (260 °C) estimated

VOC 0.84 % estimated 160.7 cSt ASTM D445 Viscosity Percent volatile 0.08 % estimated

Other data

Flammability class Combustible IIIB estimated

104 °F (40 °C) Viscosity temperature

## 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

products

dioxide.

## 11. Toxicological Information

#### Toxicological data

Test Results
Acute Oral LD50 Rat: 2364.07 g/kg estimated
Test Results
Acute Dermal LD50 Rabbit: > 16000 mg/kg
Acute Oral LD50 Rat: > 16000 mg/kg

Local effects Components of the product may be absorbed into the body through the skin. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Contact may irritate or burn eyes.

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

Contact with eyes may cause irritation. May cause skin irritation.

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

chronic effects.

Carcinogenicity Hazardous by OSHA criteria.

Material name: V-Twin Semi-Synthetic Engine Oil 20W-50 96910 Version #: 1.1 Revision date: 01-11-2012 Print date: 01-11-2012

#### **ACGIH Carcinogens**

Distillates (petroleum), Hydrotreated Heavy Naphthenic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64742-52-5)

Distillates (petroleum), Solvent-refined Heavy Paraffinic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64741-88-4)

Paraffin Oils (petroleum), Catalytic Dewaxed Light MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64742-71-8)

White Mineral Oil (petroleum) MINERAL OIL, EXCLUDING A4 Not classifiable as a human carcinogen.

METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY

REFINED, INHALABLE FRACTION (CAS 8042-47-5)

## IARC Monographs. Overall Evaluation of Carcinogenicity

MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)

3 Not classifiable as to carcinogenicity to humans.

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

## 12. Ecological Information

## Ecotoxicological data

Product Test Results

V-Twin Semi-Synthetic Engine Oil 20W-50 (Mixture) EC50 Daphnia: 1158.39 mg/l 48 hours estimated LC50 Fish: 4102.84 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.

## 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/SARA Hazardous Substances - Not applicable.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Antimony, Tris(dipentylcarbamodithioato) (CAS 1.0 % N010

15890-25-2)

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#### 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

#### 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

Inventory name

Section 302 extremely

hazardous substance

Country(s) or region

е

Section 311 hazardous

chemical

No

No

#### **Inventory status**

Australia

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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
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

Australian Inventory of Chemical Substances (AICS)

(PICCS)

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

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

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

Antimony, Tris(dipentylcarbamodithioato) (CAS Listed.

15890-25-2)

Distillates (petroleum), Hydrotreated Heavy Naphthenic Listed.

(CAS 64742-52-5)

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

(CAS 64741-88-4)

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Naphthenic Listed.

(CAS 64742-52-5)

Paraffin Oils (petroleum), Catalytic Dewaxed Light (CAS Listed.

64742-71-8)

White Mineral Oil (petroleum) (CAS 8042-47-5) Listed.

#### 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.

**Issue date** 01-11-2012

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On inventory (yes/no)\*

Yes

Yes

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

Hazards Identification: Emergency overview

First Aid Measures: Inhalation

Accidental Release Measures: Personal precautions

Handling and Storage: Handling

Exposure Controls / Personal Protection: Respiratory protection

Physical & Chemical Properties: Appearance Physical & Chemical Properties: Color Physical & Chemical Properties: Odor

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