

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 

Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50

**Product Code** 

99130

**MSDS Number** 

6398

Version #

1.0

Revision date

06-14-2010

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** 

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

0 614007

contact or eye contact.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**OSHA** regulatory status

Potential health effects

Skin contact. Eye contact.

Routes of exposure Eyes

Causes eye irritation.

Skin

Irritating to skin.

D. L. D. C. W. L. Line Enter Bland AT Engine Oil 15W 50

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 environmental** 

effects

Not expected to be harmful to aquatic organisms.

# · 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.

MSDS US

# 5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria. Not combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing

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

media

Fire fighting equipment/instructions Not available.

Specific methods

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

Hazardous combustion

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

products

# 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.

**Environmental precautions** Methods for containment

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

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.

Storage

Keep away from heat, sparks and open flame. Room temperature - normal conditions. Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

# 8. Exposure Controls / Personal Protection

# Occupational exposure limits

ACGIH	Туре	Value	Form
ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO)	TWA	0.5000 mg/m3	
(15890-25-2) Interchangeable base oils, one or more: 64741-88-4,	STEL	10.0000 mg/m3	Mist.
64742-52-5, 64742-54-7	TWA	5.0000 mg/m3	Mist.
U.S OSHA	Туре	Value	Form
Components ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO)	PEL	0.5000 mg/m3	
(15890-25-2)  Interchangeable base oils, one or more: 64741-88-4,	TWA PEL	0.5000 mg/m3 5.0000 mg/m3	Mist.
64742-52-5, 64742-54-7	TWA	2000.0000 mg/m3 500.0000 ppm 5.0000 mg/m3 400.0000 ppm	Mist.
		1600.0000 mg/m3	a used Ventilation rates

**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. MSDS US

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** 

pΗ

Liquid.

Melting point/Freezing point

Not available. Not available.

Boiling point

199.4 °F (93 °C) estimated

Flash point

374 °F (190 °C) Pensky-Martens Closed Cup

**Evaporation rate** 

Not available.

Flammability limits in air,

50 % v/v estimated

upper, % by volume

Flammability limits in air,

lower, % by volume

1 % v/v estimated

Vapor pressure

0.003 hPa estimated

Density

888 kg/m3

Vapor density

Not available.

0.888

Specific gravity

Relative density Solubility (water)

Not available. Negligible

Solubility (other)

Oil

Solvents

**Partition coefficient** 

Not available.

(n-octanol/water)

Auto-ignition temperature

500 °F (260 °C) estimated

**Decomposition temperature** 

Not available.

VOC

0.751998 % estimated

**Viscosity** 

161.9 cSt @ 104 °F (40 °C)

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** products

**Product** 

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

### 11. Toxicological Information

Toxicological data

Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50 (Mixture)

**Test Results** 

Acute Dermal LD50 Rabbit: 3015 mg/kg estimated

Acute Inhalation LC50 Rat: 618 mg/l estimated

Acute Oral LD50 Rat: 2364 g/kg estimated

Material name: Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50 99130 Version #: 1.0 Revision date: 06-14-2010 Print date: 06-14-2010 Components

**Test Results** 

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (15890-25-2)

Acute Dermal LD50 Rabbit: > 16000 mg/kg

Acute Oral LD50 Rat: > 16000 mg/kg

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

**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 15W-50 (Mixture)

EC50 Daphnia: 684 mg/l 48.00 hours estimated LC50 Fish: 2232 mg/l 96.00 hours estimated

\* 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

Not regulated as dangerous goods.

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.

# 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

Material name: Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50 99130 Version #: 1.0 Revision date: 06-14-2010 Print date: 06-14-2010

#### 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

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
Europe	European Inventory of Existing Commercial Chemical Substances	Yes

(EINECS)

Existing Chemicals List (ECL) Korea

Yes

Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico \*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 and birth defects or other reproductive harm.

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

Listed: February 27, 1987 Carcinogenic. ARSENIC (CAS 7440-38-2) CADMIUM AND COMPOUNDS (CAS 7440-43-9) Listed: October 1, 1987 Carcinogenic. Listed: October 1, 1992 Carcinogenic. LEAD (CAS 7439-92-1)

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

CADMIUM AND COMPOUNDS (CAS 7440-43-9) Listed: May 1, 1997 Developmental toxin. Listed: February 27, 1987 Developmental toxin. LEAD (CAS 7439-92-1)

# US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Listed: February 27, 1987 Female reproductive toxin. LEAD (CAS 7439-92-1)

### 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. LEAD (CAS 7439-92-1)

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

ANTIMONY, TRIS(DIPENTYLCARBAMODITHIOATO) (CAS 500 LBS 15890-25-2)

### 16. Other Information

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

**HMIS®** ratings Health: 2 Flammability: 1

Physical hazard: 0

Health: 2 **NFPA** ratings

Flammability: 1 Instability: 0

Bel-Ray Company cannot anticipate all conditions under which this information and its product, or Disclaimer

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

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