PELORAV TOTAL PERFORMANCE LUGRICANTS

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Bel-Ray H1-R Racing 100% Synthetic Ester 2T Engine Oil

 Product Code
 99280

 MSDS Number
 6691

 Version #
 3.0

Revision date 08-30-2013
Product use 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

OSHA regulatory statusThis product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation.

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

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

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

IngestionHealth injuries are not known or expected under normal use.Potential environmentalMay cause long-term adverse effects in the environment.

effects

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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.

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

5. Fire Fighting Measures

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

Extinguishing media

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

media

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

media

Protection of firefighters

Protective equipmentand precautions for
Wear suitable protective equipment.

firefighters

Material name: Bel-Ray H1-R Racing 100% Synthetic Ester 2T Engine Oil

99280 Version #: 3.0 Revision date: 08-30-2013 Print date: 08-30-2013

1 / 5

Fire fighting

equipment/instructions

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

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away.

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.

Methods for cleaning upShould not be released into the environment.

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. Avoid prolonged exposure. Avoid release to the environment.

Storage Keep away from heat, sparks and open flame.

8. Exposure Controls / Personal Protection

Engineering controlsGood 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 Normal work clothing (long sleeved shirts and long pants) is recommended.

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

certified respirators.

General hygiene considerations

Odor

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Oily.

Oily.

Physical state Liquid.
Form Liquid.
Liquid.
Liquid.

2.90...

Color Red.

Red. Mild. Mild.

Odor threshold Not available.

pH Not available.

Vapor pressure 0.000009161 hPa estimated

Density 949.00 kg/m³ **Vapor density** Not available.

Boiling point 539.6 °F (282 °C) estimated

Melting point/Freezing point Not available.

Solubility (water) Not available.

Material name: Bel-Ray H1-R Racing 100% Synthetic Ester 2T Engine Oil 99280 Version #: 3.0 Revision date: 08-30-2013 Print date: 08-30-2013

Solubility (other) Not available.

0.949 Specific gravity

Relative density Not available.

395.60 °F (202.00 °C) Pensky-Martens Closed Cup Flash point

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature Not available. VOC < 0.5 % Viscosity 121 cSt

Other data

Percent volatile

Flammability class Combustible IIIB estimated

104 °F (40 °C) Viscosity temperature

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

< 0.5 %

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

Incompatible materials Not available.

Hazardous decomposition

products

Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
Bel-Ray H1-R Racing 100	9% Synthetic Ester 2T Engine Oil (Mixture)	
Acute		
Oral		
LD50	Rat	84000 g/kg, estimated
Other		
LD50	Rat	12794.6133 mg/kg, estimated

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

Chronic effects Prolonged inhalation may be harmful.

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

data the classification is not possible.

Skin corrosion/irritation Due to lack of data the classification is not possible. Mutagenicity Due to lack of data the classification is not possible. Reproductive effects Due to lack of data the classification is not possible.

12. Ecological Information

Ecotoxicological data

Product	Species	Test Results	
Rol Day H1 D Dacing 100% Syn	thatic Estar 2T Engina Oil (Mixtura)		

Bei-Ray HT-R Racing 100% Synthetic Ester 21 Engine Oii (Mixture)

EC50 Daphnia 61730.7695 mg/l, 48 hours, estimated Crustacea

Contains a substance which causes risk of hazardous effects to the environment. **Ecotoxicity**

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Persistence and degradability Not available.

Bioaccumulation / Accumulation

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

13. Disposal Considerations

Disposal instructionsCollect 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 regulationsThis product is not known to be 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 (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

Section 302 extremely

hazardous substance

Section 311 hazardous

chemical

No

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.

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

Hazards Identification: Eyes Hazards Identification: Skin

Composition / Information on Ingredients: Ingredients

First Aid Measures: Inhalation First Aid Measures: General advice

Accidental Release Measures: Personal precautions Handling and Storage: Storage

Physical & Chemical Properties: Multiple Properties

Toxicological Information: Carcinogenicity Toxicological Information: Mutagenicity Toxicological Information: Reproductivity Toxicological Information: Corrosivity

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