



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

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| Material name | Bel-Ray EXL Mineral 4T Engine Oil 20W-50 |
| Product Code | 99100 |
| MSDS Number | 6395 |
| 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

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| Emergency overview | 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 not hazardous under 29 CFR 1910.1200 (Hazard Communication). |
| Potential health effects | |
| Routes of exposure | Inhalation. |
| Eyes | Contact with eyes may cause irritation. |
| Skin | May cause skin irritation in susceptible persons. |
| 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

| Non-hazardous components | CAS # | Percent |
|--|-------|---------|
| Interchangeable base oils, one or more: 64741-88-4, 64742-65-0, 64742-52-5 | | >= 80 |

4. First Aid Measures

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| 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 | Move to fresh air. Call a physician if symptoms develop or persist. |
| Ingestion | Rinse mouth. 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. |

5. Fire Fighting Measures

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| Flammable properties | Not flammable by OSHA criteria. Not combustible by OSHA criteria. |
| Extinguishing media | |
| Suitable extinguishing media | Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2). |
| Fire fighting equipment/instructions | Not available. |

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| Specific methods | Cool containers exposed to flames with water until well after the fire is out. |
| Hazardous combustion products | May include oxides of nitrogen. Carbon monoxide and carbon dioxide. |

6. Accidental Release Measures

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| Personal precautions | Keep unnecessary personnel away. 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). 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. 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

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| 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. Room temperature - normal conditions. Keep out of the reach of children. |

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

| Components | Type | Value | Form |
|--|------|---------------|-------|
| Interchangeable base oils, one or more: 64741-88-4, 64742-65-0, 64742-52-5 | STEL | 10.0000 mg/m3 | Mist. |
| | TWA | 5.0000 mg/m3 | Mist. |

U.S. - OSHA

| Components | Type | Value | Form |
|--|------|--|-------|
| Interchangeable base oils, one or more: 64741-88-4, 64742-65-0, 64742-52-5 | PEL | 5.0000 mg/m3 | Mist. |
| | TWA | 2000.0000 mg/m3 500.0000 ppm 5.0000 mg/m3 400.0000 ppm 1600.0000 mg/m3 | Mist. |

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| 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

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| Eye / face protection | Not normally needed. |
| Skin protection | No special protective equipment required. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical & Chemical Properties

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

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| pH | Not available. |
| Melting point/Freezing point | Not available. |
| Boiling point | 649.4 °F (343 °C) estimated |
| Flash point | 381.2 °F (194 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Density | 874 kg/m ³ |
| Vapor density | Not available. |
| Specific gravity | 0.874 |
| Relative density | Not available. |
| Solubility (water) | Negligible |
| Solubility (other) | Oil Solvents |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 500 °F (260 °C) estimated |
| Decomposition temperature | Not available. |
| VOC | 0.751998 % estimated |
| Percent volatile | 0.0846 % estimated |

10. Chemical Stability & Reactivity Information

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| Chemical stability | Material is stable under normal conditions. |
| Conditions to avoid | Heat, flames and sparks. |
| Hazardous decomposition products | Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide. |

11. Toxicological Information

| Toxicological data | |
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| Product | Test Results |
| Bel-Ray EXL Mineral 4T Engine Oil 20W-50 (Mixture) | Acute Dermal LD50 Rabbit: 2186 mg/kg estimated Acute Oral LD50 Rat: 2364 g/kg estimated |

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

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| Local effects | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contact with eyes may cause irritation. May cause skin irritation. |
| 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 EXL Mineral 4T Engine Oil 20W-50 (Mixture) | EC50 Daphnia: 684 mg/l 48.00 hours estimated LC50 Fish: 159 mg/l 96.00 hours estimated |

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

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| 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

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| 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

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| US federal regulations | This product is not known to be 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. |
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CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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| Hazard categories | Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No |
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Section 302 extremely hazardous substance No

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 (EINECS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

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

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| State regulations | WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. |
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US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

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

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

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|---------------------------------------|--|
| 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

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|----------------------|--|
| LEAD (CAS 7439-92-1) | Listed: February 27, 1987 Female reproductive toxin. |
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US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

CADIUM AND COMPOUNDS (CAS 7440-43-9)

Listed: May 1, 1997 Male reproductive toxin.

LEAD (CAS 7439-92-1)

Listed: February 27, 1987 Male reproductive toxin.

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: 0

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. 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.

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