



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name	Bel-Ray EXL Mineral 4T Engine Oil 20W-50
Product code	99100
SDS Number	6511
Recommended use	Lubricant
Version No.	5.0
Revision date	29-July-2014
Manufacturer	Bel-Ray Company, LLC P.O. Box 526 Farmingdale, NJ 07727 United States of America +1 732 938 2421 CHEMTREC: 800-424-9300 (USA) CHEMTREC: +1 703-527-3887 (outside USA - call collect)
	Bel-Ray Company, LLC PO Box 526 Farmingdale, New Jersey USA 07727 1 732-938-2421 CHEMTREC: 1800 069 100 (AUS)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The components are not hazardous or are below required disclosure limits.

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. Get medical attention, if needed.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control centre immediately. Never give liquid to an unconscious person.
General advice	Call a physician if symptoms develop or persist.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry powder. Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons	Do not use water jet as an extinguisher, as this will spread the fire. Water.
Hazchem Code	None
Hazardous combustion products	May include oxides of Nitrogen. Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	In case of spills, beware of slippery floors and surfaces.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Containment procedures	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapours or divert vapour cloud drift.

Methods for cleaning up

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.

7. HANDLING AND STORAGE**Handling**

Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling.

Storage

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Recommended monitoring procedures**

Additional exposure data Not available.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Respiratory protection**

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

Hand protection

Not normally needed.

Eye protection

Not normally needed.

Skin and body protection

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

General

Applicable for industrial settings only: Use personal protective equipment as required. Keep working clothes separately.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Oily.
Oily.

Physical state

Liquid.

Form

Liquid.
Liquid.

Colour

Amber.
Amber.

Odour

Petroleum
Petroleum

Odour threshold

Not available.

pH

Not available.

Vapour pressure

0.132153578 hPa estimated

Density

883.00 kg/m³

Vapour density

Not available.

Boiling point

> 296 °C (> 564.8 °F)

Melting point/freezing point

Not available.

Solubility (water)

Negligible

Solubility (other)

Oil
Solvents

Specific gravity

0.883

Flash point

194.00 °C (381.20 °F) 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

260 °C (500 °F) estimated

VOC

0.0846 % estimated

Viscosity

147.48 cSt

Percent volatile

0.0846 % estimated

Other data

Flammability class	Combustible IIIB estimated
Viscosity temperature	40 °C (104 °F)

10. STABILITY AND REACTIVITY

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Species	Test results
Bel-Ray EXL Mineral 4T Engine Oil 20W-50 (Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2331.0024 mg/kg, estimated
<i>Oral</i>		
LD50	Rat	2554.9309 mg/kg, estimated
		1182.0331 g/kg, estimated

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

Routes of exposure	Inhalation. Not applicable.
Chronic toxicity	Prolonged inhalation may be harmful.
Carcinogenicity	Due to lack of data the classification is not possible.
Mutagenicity	Due to lack of data the classification is not possible.
Reproductivity	Due to lack of data the classification is not possible.
Epidemiology	No epidemiological data is available for this product.
Local effects	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Contact with eyes may cause irritation. May cause skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product	Species		Test results
Bel-Ray EXL Mineral 4T Engine Oil 20W-50 (Mixture)			
Crustacea	EC50	Daphnia	579.1962 mg/l, 48 hours, estimated
Fish	LC50	Fish	200.1013 mg/l, 96 hours, estimated

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

Ecotoxicity	Not expected to be harmful to aquatic organisms.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Hazchem Code	None
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15. REGULATORY INFORMATION

National regulations

This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.) No poison schedule number allocated.

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
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)

16. OTHER INFORMATION

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

14-June-2010

Revision date

29-July-2014

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

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING: Bel Ray Custom Labels