



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Bel-Ray Waterproof Grease
Product Code 99540
MSDS Number 6439
Version # 1.0
Revision date 06-15-2010
Product use Lubricant
Manufacturer information Bel-Ray Company, Inc.
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United States of America
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CHEMTREC: +1 703-527-3887 (outside USA)
CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

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.

Potential health effects

- 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, 64742-01-4, 64742-55-8, 64742-52-5		>= 80
BARIUM, WATER-SOLUBLE COMPOUNDS, N.O.S.	68201-19-4	0.5 - 1.5

Composition comments Not applicable to consumer products.

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** 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

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Fire fighting equipment/instructions	In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.
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

Personal precautions	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	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. Large Spills: Dike far ahead of spill for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Avoid prolonged exposure. Avoid release to the environment.
Storage	Room temperature - normal conditions. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

Canada - British Columbia

Components	Type	Value
BARIUM, WATER-SOLUBLE COMPOUNDS, N.O.S. (68201-19-4)	TWA	0.5000 mg/m3

Canada - Ontario

Components	Type	Value	Form
Interchangeable base oils, one or more: 64741-88-4, 64742-01-4, 64742-55-8, 64742-52-5	STEL	10.0000 mg/m3	Mist.

Canada - Quebec

Components	Type	Value	Form
BARIUM, WATER-SOLUBLE COMPOUNDS, N.O.S. (68201-19-4)	TWA	0.5000 mg/m3	
Interchangeable base oils, one or more: 64741-88-4, 64742-01-4, 64742-55-8, 64742-52-5	STEL	10.0000 mg/m3	Mist.
	TWA	5.0000 mg/m3	Mist.

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

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.

9. Physical & Chemical Properties

Appearance	Grease
Color	Green.
Odor	Mild.
Odor threshold	Not available.
Physical state	Liquid

Form	Liquid.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point	649.4 °F (343 °C) estimated
Flash point	417.2 °F (214 °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	0.3536 hPa estimated
Density	888 kg/m ³
Vapor density	Not available.
Specific gravity	0.888
Relative density	0.9928 g/cm ³ estimated
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol / water)	Not available.
Auto-ignition temperature	388.4 °F (198 °C) estimated
Decomposition temperature	Not available.
VOC	0.005299 % estimated
Percent volatile	0.016297 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Hazardous decomposition products	Irritants. Nitrogen oxides (NOx). Sulfur oxides. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological Information

Toxicological data

Product	Test Results
Bel-Ray Waterproof Grease (Mixture)	Acute Dermal LD50 Rabbit: 6989 mg/kg estimated Acute Inhalation LC50 Rat: 3.5788 mg/l estimated Acute Oral LD50 Rat: 44444 g/kg estimated Acute Oral LD50 Rat: 6737 mg/kg estimated

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

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. Not expected to be hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicological data

Product	Test Results
Bel-Ray Waterproof Grease (Mixture)	EC50 Daphnia: 6107 mg/l 48.00 hours estimated LC50 Fish: 646 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	Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.

14. Transport Information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	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

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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