



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name Waterproof Grease

Product code 99540

SDS Number 6439

Recommended use Lubricant

Version No. 4.0

Revision date 28-May-2019

Manufacturer

Bel-Ray Company, Inc.
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CHEMTREC: 800-424-9300 (USA)
CHEMTREC: +1 703-527-3887 (outside USA - call collect)

Superior Lubricants
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133 607 950
CHEMTREC: 1800 069 100 (AUS)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	0 - < 90
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - < 90
Barium, Acetate Tallow Fatty Acids Complexes	68201-19-4	< 10
Diphenylamine	122-39-4	< 10
Sodium Dodecylbenzenesulfonate	25155-30-0	< 10
Xylene (all Isomers)	1330-20-7	< 10
Other components below reportable levels		30 - 60

Composition comments IP 346: < 3.0% DMSO extract for all base oil substances.

4. FIRST-AID MEASURES

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

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	This product is miscible in water.

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	Use care in handling/storage.
Storage	Room temperature - normal conditions. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

ACGIH

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value
Barium, Acetate Tallow Fatty Acids Complexes (68201-19-4)	TWA	0.5 mg/m3
Diphenylamine (122-39-4)	TWA	10 mg/m3
Xylene (all Isomers) (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Barium, Acetate Tallow Fatty Acids Complexes (68201-19-4)	TWA	0.5 mg/m3	
Diphenylamine (122-39-4)	TWA	10 mg/m3	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Xylene (all Isomers) (1330-20-7)	STEL	655 mg/m3	
	TWA	150 ppm 350 mg/m3 80 ppm	

Recommended monitoring procedures

Additional exposure data Occupational Exposure Limits are not relevant to the current physical form of the product.

Engineering measures General ventilation normally adequate.

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required.

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.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grease Grease
Physical state	Liquid.
Form	Liquid. Grease Paste. Liquid. Grease Paste.
Colour	Green. Green.
Odour	Mild. Mild.
Odour threshold	Not available.
pH	Not available.
Vapour pressure	0.000010998 hPa estimated
Density	888.00 kg/m ³
Vapour density	Not available.
Boiling point	360 °C (680 °F) estimated
Melting point/freezing point	Not available.
Solubility (water)	Negligible
Solubility (other)	Oil
Specific gravity	0.888
Flash point	214.00 °C (417.20 °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	0.016299 % estimated
Percent volatile	0.016299 % estimated
Other data	
Flammability class	Combustible IIIB estimated
Flash point class	Combustible IIIB

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	Toxic gas. Nitrogen oxides (NO _x). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological data		
Product	Species	Test results
Waterproof Grease (Mixture)		
Acute		
<i>Oral</i>		
LD50	Rat	37180.7969 g/kg, estimated
<i>Other</i>		
LD50	Rat	40425.5313 mg/kg, estimated
Components	Species	Test results
Diphenylamine (122-39-4)		
Acute		
<i>Oral</i>		
LD50	Guinea pig	300 mg/kg

Components	Species	Test results
Xylene (all Isomers) (1330-20-7)	Mouse	1750 mg/kg
	Rat	2 g/kg
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
LCL0	Rat	8000 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
<i>Other</i>		
LD50	Rat	3.8 mg/kg

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

Routes of exposure Not applicable.

Carcinogenicity Due to lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

XYLENES (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

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
Waterproof Grease (Mixture)		
Crustacea	EC50	Daphnia 15219.9229 mg/l, 48 hours, estimated
Fish	LC50	Fish 43657.5469 mg/l, 96 hours, estimated
Components	Species	Test results
Diphenylamine (122-39-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 0.27 - 0.36 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 3.471 - 4.141 mg/l, 96 hours
Sodium Dodecylbenzenesulfonate (25155-30-0)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) 3.26 - 14.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 3.2 - 5.6 mg/l, 96 hours
Xylene (all Isomers) (1330-20-7)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 2.661 - 4.093 mg/l, 96 hours

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

Ecotoxicity Not expected to be harmful to aquatic organisms.

Mobility This product is miscible in water.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log K_{ow}

Sodium Dodecylbenzenesulfonate	0.45
Xylene (all Isomers)	3.12 - 3.2

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

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.)

Australia HVIC: Listed substance

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	Listed.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4)	Listed.
Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)	Listed.
Xylene (all Isomers) (CAS 1330-20-7)	Listed.

Australia Medicines & Poisons Schedule 5: Use/Concentration/Exceptions

Sodium Dodecylbenzenesulfonate (CAS 25155-30-0)	Exception was applied to data.
Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6: Use/Concentration/Exceptions

Barium, Acetate Tallow Fatty Acids Complexes (CAS 68201-19-4)	applies to all preparations in any concentration Exception may apply, see the regulation for relevance.
Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

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.

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