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. 1.0

Revision date 14-December-2011

Manufacturer

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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), hydrotreated heavy paraffinic	64742-54-7	0 - < 90
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0< 90
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	0 - < 90
White mineral oil (petroleum)	8042-47-5	0< 90
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)-	54326-11-3	< 10
BARIUM, ACETATE TALLOW FATTY ACIDS COMPLEXES	68201-19-4	< 10
Diphenylamine	122-39-4	< 10
Ethylbenzene	100-41-4	< 10
Sodium Dodecylbenzenesulfonate	25155-30-0	< 10
Xylene (all Isomers)	1330-20-7	< 10
Other components below reportable levels		< 10

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

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 Avoid prolonged exposure. 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	Form
Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)- (54326-11-3)	TWA	1 mg/m3	Respirable fraction.
BARIUM, ACETATE TALLOW FATTY ACIDS COMPLEXES (68201-19-4)	TWA	0.5 mg/m3	
Diphenylamine (122-39-4)	TWA	10 mg/m3	
Ethylbenzene (100-41-4)	TWA	20 ppm	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
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), hydrotreated heavy paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Ethylbenzene (100-41-4)	STEL	543 mg/m3 125 ppm	
	TWA	434 mg/m3 100 ppm	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.
Xylene (all Isomers) (1330-20-7)	STEL	655 mg/m3 150 ppm	
	TWA	350 mg/m3 80 ppm	

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures 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.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Grease

Physical state Liquid.

Form Grease

Colour Green.

Odour Mild.

Odour threshold Not available.

pH Not available.

Vapour pressure 0 hPa estimated

Density 888 kg/m3

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 0.89

Flash point 214 °C (417.2 °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 0.02 % estimated

Percent volatile 0.02 % 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 (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Test results
Waterproof Grease (Mixture)	Acute Oral LD50 Rat: 37180.8 g/kg estimated Acute Other LD50 Rat: 40425.53 mg/kg estimated
Components	**Test results**
Ethylbenzene (100-41-4)	Acute Dermal LD50 Rabbit: 17800 mg/kg Acute Oral LD50 Rat: 3500 mg/kg Acute Oral LD50 Rat: 5.46 g/kg Acute Other LD50 Mouse: 2272 mg/kg
Diphenylamine (122-39-4)	Acute Oral LD50 Guinea pig: 300 mg/kg Acute Oral LD50 Mouse: 1750 mg/kg Acute Oral LD50 Rat: 2 g/kg
Xylene (all Isomers) (1330-20-7)	Acute Dermal LD50 Rabbit: > 43 g/kg Acute Inhalation LC50 Mouse: 3907 mg/l 6 Hours Acute Inhalation LC50 Rat: 6350 mg/l 4 Hours Acute Inhalation LCL0 Rat: 8000 mg/l 4 Hours Acute Oral LD50 Mouse: 1590 mg/kg Acute Oral LD50 Rat: 3523 - 8600 mg/kg Acute Other LD50 Rat: 3.8 mg/kg

Routes of exposure	Inhalation. Not applicable
Chronic toxicity	Prolonged inhalation may be harmful.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.
XYLENES (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductivity	Not classified.
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	Test results
Waterproof Grease (Mixture)	EC50 Daphnia: 15219.92 mg/l 48 hours estimated LC50 Fish: 43657.55 mg/l 96 hours estimated
Components	**Test results**
Ethylbenzene (100-41-4)	EC50 Water flea (Daphnia magna): 1.37 - 4.4 mg/l 48 hours LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 4.2 mg/l 96 hours
Diphenylamine (122-39-4)	EC50 Water flea (Daphnia magna): 0.27 - 0.36 mg/l 48 hours

Components	Test results
	LC50 Fathead minnow (Pimephales promelas): 3.47 - 4.14 mg/l 96 hours
Xylene (all Isomers) (1330-20-7)	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 2.66 - 4.09 mg/l 96 hours
Sodium Dodecylbenzenesulfonate (25155-30-0)	EC50 Water flea (Ceriodaphnia dubia): 3.26 - 14.51 mg/l 48 hours
	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 3.2 - 5.6 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.

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.

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.)

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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This data sheet contains changes from the previous version in section(s): This document has undergone significant changes and should be reviewed in its entirety.