PELORAV TOTAL PERFORMANCE LUBRICANTS

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name Bel-Ray Super DOT 4 Brake Fluid

Product code 99480

SDS Number 6419

Recommended use Brake fluid

Version No. 1.1

Revision date 20-April-2012

Manufacturer

Bel-Ray Company, Inc.

P.O. Box 526

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CHEMTREC: 800-424-9300 (USA)

CHEMTREC: +1 703-527-3887 (outside USA - call collect)

Bel-Ray Company PTY Limited

4 Ginger Street

Paget, QLD 4740 Australia

749525778

CHEMTREC: 1800 069 100 (AUS)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	
2,2'-(octylimino)bisethanol	15520-05-5	< 10	
Diethylene glycol	111-46-6	< 10	
Other components below reportable levels		> 60	

4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Ingestion Do not induce vomiting. Never give liquid to an unconscious person.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

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

Extinguishing media which must not be used for safety

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

Hazardous combustion

Carbon monoxide and carbon dioxide.

products

reasons

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. Local authorities should be advised if significant spillages

cannot be contained. Wear appropriate protective equipment and clothing during clean-up.

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.

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MSDS AUSTRALIA

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: 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 Store in original tightly closed container. Store in accordance with

local/regional/national/international regulation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

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

Environment)

ComponentsTypeValueDiethylene glycol (111-46-6)TWA100 mg/m3
23 ppm

Recommended monitoring procedures

Additional exposure data Not available.

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceNot available.Physical stateLiquid.FormLiquid.ColourNot available.OdourNot available.

Odour threshold Not available.

Vapour pressure0.11 hPa estimatedDensity1.07 - 1.09 g/cm3Vapour densityNot available.

Boiling point $> 275 \, ^{\circ}\text{C} \, (> 527 \, ^{\circ}\text{F})$

Melting point/freezing point -10.4 °C (13.28 °F) estimated

Solubility (water)350 g/lSolubility (other)Not available.Specific gravity1.07 estimatedFlash point> 129 °C (> 264.2 °F)

Flammability limits in air,

upper, % by volume

Not available.

7 - 11.5

Flammability limits in air, lower, % by volume

Not available.

Auto-ignition temperature 228.89 °C (444 °F) estimated

VOC 2 % estimated
Viscosity 17 - 18 mm²/s
Percent volatile 2 % estimated

Other data

pН

Flammability class Combustible IIIB estimated

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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

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Test results	
Acute Oral LD50 Guinea pig: 700 g/kg estimated	
Acute Oral LD50 Mouse: 665 g/kg estimated Acute Oral LD50 Rabbit: 1345 g/kg estimated Acute Oral LD50 Rat: 780 g/kg estimated Acute Other LD50 Mouse: 480 g/kg estimated Acute Other LD50 Rat: 385 g/kg estimated Test results	
Acute Dermal LD50 Rabbit: 11890 mg/kg	
Acute Oral LD50 Cat: 3300 mg/kg Acute Oral LD50 Dog: 9000 mg/kg Acute Oral LD50 Guinea pig: 8700 mg/kg Acute Oral LD50 Guinea pig: 14 g/kg Acute Oral LD50 Mouse: 23700 mg/kg Acute Oral LD50 Mouse: 13.3 g/kg Acute Oral LD50 Rabbit: 26.9 g/kg Acute Oral LD50 Rat: > 7700 mg/kg Acute Oral LD50 Rat: 15.6 g/kg Acute Oral LD50 Mouse: 22500 mg/kg Acute Other LD50 Mouse: 9.6 g/kg Acute Other LD50 Rabbit: 2000 mg/kg Acute Other LD50 Rat: 7700 mg/kg Acute Other LD50 Rat: 7700 mg/kg Acute Other LD50 Rat: 7700 mg/kg	

Routes of exposure Not applicable

Carcinogenicity 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 May irritate eyes and skin.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components	Test results
Diethylene glycol (111-46-6)	LC50 Western mosquitofish (Gambusia affinis): > 32000 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.

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.

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14. TRANSPORT INFORMATION

ADG

Not regulated as dangerous goods.

ΙΔΤΔ

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.)

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesEuropeEuropean Inventory of Existing Commercial Chemical Substances (EINECS)Yes

JapanInventory of Existing and New Chemical Substances (ENCS)YesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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 20-April-2012

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

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING:

Product Uses

Material name: Bel-Ray Super DOT 4 Brake Fluid MSDS AUSTRALIA

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