PERFORMANCE LUBRICANTS

SAFETY DATA SHEET

1. Product and company identification

Product name Bel-Ray Super DOT 4 Brake Fluid

Product code 99480 SDS number 6419

Bel-Ray Company PTY Limited

4 Ginger Street

Paget, QLD 4740 Australia

749525778

CHEMTREC: 1800 069 100 (AUS)

Bel-Ray Company, Inc.

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)

Recommended use and Limitations on use

Not available.

2. Hazards identification

GHS classification

Physical hazards Not classified.

Health hazards Reproductive toxicity Category 2

Environmental hazards Not classified.

Label elements

Symbols



Signal word Warning

Hazard statement Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Use personal protective

equipment as required.

Response If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get

medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical propertyCAS NumberConcentration (%)Diethylene glycol111-46-61 - < 3</td>Diethylene Glycol90 - 100

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.

Material name: Bel-Ray Super DOT 4 Brake Fluid SDS NEW ZEALAND

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

Potential delayed effects

Not available.

Personal protection for

first-aid responders

IF exposed or concerned: Get medical advice/attention.

Notes to physician Not available.

5. Fire-fighting measures

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

Extinguishing media to avoid

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

Specific hazards during fire

fighting

None.

Special fire fighting

procedures

None

Protection of fire-fighters

None

Hazards from combustion

products

Carbon monoxide and carbon dioxide.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Ensure adequate

Environmental precautions

No special environmental precautions required.

Spill cleanup methods

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

Precautions Obtain special instructions before use. Use personal protective equipment as required. When using,

do not eat, drink or smoke. Wash hands thoroughly after handling.

Safe handling advice Do not handle until all safety precautions have been read and understood. Avoid contact during

pregnancy/while nursing. Avoid prolonged exposure. Use personal protection recommended in

Value

Section 8 of the MSDS.

Prevention of fire and

explosion

No specific recommendations.

Storage

Suitable storage

conditions

Store locked up.

Incompatible materials

None known.

Safe packaging materials

Keep in original container.

8. Exposure controls/personal protection

Exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	туре	value	
Diethylene glycol (111-46-6)	TWA	101 mg/m3	
		23 ppm	
UK. EH40 Workplace Exposure L	imits (WELs)		
Components	Туре	Value	
Diethylene glycol (111-46-6)	TWA	101 mg/m3	
		23 ppm	

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

Components	Туре	Value	
Diethylene glycol (111-46-6)	TWA	100 mg/m3 23 ppm	

Material name: Bel-Ray Super DOT 4 Brake Fluid 99480 Version No.: 1.1 Revision date: 20-April-2012 Print date: 20-April-2012 **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. Provide

adequate general and local exhaust ventilation.

Personal protective equipment

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

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

Eye/face protection Not normally needed.

Radioactive or thermal

hazards

Not available.

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and immediately after

handling the product. Handle in accordance with good industrial hygiene and safety practices.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.

Colour Not available.

Odour Not available.

pH 7 - 11.5

Odour threshold Not available.

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

Boiling point, initial boiling point, and boiling range

> 275 °C (> 527 °F)

Flash point > 129 °C (> 264.2 °F)

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

Flammability (solid, gas) Not available.
Flammability limit - lower (%) Not available.
Flammability limit - upper (%) Not available.
Explosive limit Not available.

Vapour pressure0.11 hPa estimatedDensity1.07 - 1.09 g/cm3Vapour densityNot available.Evaporation rateNot available.Relative densityNot available.Solubility350 g/l

Solubility (other)
Partition coefficient
(n-octanol/water)

Not available. Not available.

Decomposition temperatureNot available.Viscosity17 - 18 mm²/sPercent volatile2 % estimated

Other data

Flammability class Combustible IIIB estimated

Specific gravity1.07 estimatedViscosity temperature20 °C (68 °F)VOC (Weight %)2 % estimated

10. Stability and reactivity

Stability Material is stable under normal conditions. **Conditions to avoid** Avoid temperatures exceeding the flash point.

Incompatible materials None known.

Hazardous decomposition

products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

Material name: Bel-Ray Super DOT 4 Brake Fluid SDS NEW ZEALAND

None.

11. Toxicological information

Acute toxicity Not available.

Components	Test results
Diethylene glycol (111-46-6)	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 Other 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: 7.7 g/kg

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

Routes of exposure Inhalation. Not available. **Symptoms** Skin corrosion/irritation Not available. Serious eye damage/eye Not available.

irritation

Respiratory sensitizer Not available. Skin sensitizer Not available. Not available. Germ cell mutagenicity Carcinogenicity Not available.

Suspected of damaging fertility or the unborn child. Toxic to reproduction Not available.

Specific target organ

toxicity - single exposure

Specific target organ toxicity - repeated

Aspiration hazard

exposure

Not available.

Not available.

Chronic effects Prolonged inhalation may be harmful.

Relevant negative data Not available.

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. Persistence and

degradability

No data is available on the degradability of this product.

Bioaccumulation Not available. Mobility Not available.

99480 Version No.: 1.1 Revision date: 20-April-2012 Print date: 20-April-2012

4/5

Environmental fate - Partition coefficient

Not available.

Other hazardous effects Not available.

13. Disposal considerations

Disposal

methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Not available.

14. Transport information

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Country(s) or region

15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Diethylene glycol (CAS 111-46-6) HSNO Approved

Inventory name

Inventory status

Canada	Domestic Substances List (DSL)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

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

16. Other information

References Not available.

Issued by

Not available.

Prepared by

Not available.

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 date20-April-2012Revision date20-April-2012

Material name: Bel-Ray Super DOT 4 Brake Fluid SDS NEW ZEALAND

On inventory (yes/no)*

Yes

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