SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name Bel-Ray Silicone DOT 5 Brake Fluid

99450 Product code **MSDS Number** 6420 Version No. 1.0

Revision Date 16-June-2010

Manufacturer

Bel-Ray Company PTY Limited

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2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Classification Carc. Cat. 3;R40

Risk phrase(s) R40 Limited evidence of a carcinogenic effect.

Safety phrase(s) S1/2 Keep locked up and out of the reach of children.

S36/37 Wear suitable protective clothing and gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	
TRIBUTYL PHOSPHATE	126-73-8	<= 10	

4. FIRST-AID MEASURES

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention, if needed. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops Skin contact

and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if Eye contact

irritation develops and persists.

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content Ingestion

doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. If swallowed, seek medical advice immediately and show this container or label. Never give liquid to

an unconscious person.

General advice Call a physician if symptoms develop or persist.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

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

Specific hazards Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure

demand breathing apparatus, protective clothing and face mask.

Specific methods Cool containers exposed to flames with water until well after the fire is out. **Hazardous combustion** May include oxides of Phosphorus. Carbon monoxide and carbon dioxide.

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6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Wear appropriate Personal precautions

> protective equipment and clothing during clean-up. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Dike far ahead of spill for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Methods for cleaning up

Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling Do not use in areas without adequate ventilation. Wash thoroughly after handling.

Keep locked up. Room temperature - normal conditions. Keep out of the reach of children. Storage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

ACGIH

Components	Туре	Value	
TRIBUTYL PHOSPHATE (126-73-8)	TWA	0.2000 ppm	
Australia			
Components	Туре	Value	
TRIBUTYL PHOSPHATE (126-73-8)	TWA	0.2000 ppm	
		2.2000 mg/m3	

Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

General Applicable for industrial settings only: Use personal protective equipment as required. Keep

working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid **Physical state** Liquid **Form** Liquid Colour **Purple** Odour Odourless. **Odour threshold** Not available. pН Not available Vapour pressure < 0.1 mm Hg Density 958 kg/m3 Vapour density Not available.

289 °C (552.2 °F) estimated **Boiling point**

Melting point/Freezing point 0 °C (32 °F) estimated / 0 °C (32 °F) estimated

Solubility (water) Not available. Solubility (other) Not available. Relative density 0.958

Relative density Not available. 206 °C (402.8 °F) Flash point Flammability limits in air, Not available.

upper, % by volume Flammability limits in air,

Not available.

lower, % by volume

Auto-ignition temperature Not available.

Viscosity 42 - 43 cSt @ 25 °C (77 °F)

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10. STABILITY AND REACTIVITY

Chemical stability Material is stable under normal conditions.

Materials to avoid Strong oxidising agents.

Hazardous decomposition

Oxides of phosphorus. At thermal decomposition temperatures, carbon monoxide and carbon

dioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological data

products

Product	Test results
Bel-Ray Silicone DOT 5 Brake Fluid (Mixture)	Acute Inhalation LC50 Cat: 10089 mg/l estimated
	Acute Inhalation LC50 Rat: 5467 mg/l estimated
	Acute Oral LD50 Chicken: 82800 mg/kg estimated
	Acute Other LD50 Mouse: 7044 mg/kg estimated
	Acute Other LD50 Rat: 35.56 g/kg estimated
Components	Test results
TRIBUTYL PHOSPHATE (126-73-8)	Acute Dermal LD50 Rabbit: > 3100 mg/kg
	Acute Inhalation LC50 Cat: 227 mg/l 4.00 Hours
	Acute Inhalation LC50 Rat: 123 mg/l 6.00 Hours
	Acute Oral LD50 Chicken: 1863 mg/kg
	Acute Other LD50 Mouse: 158.5 mg/kg
	Acute Other LD50 Rat: 100 mg/kg
	Acute Other LD50 Rat: 0.8 g/kg

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

Routes of exposure Not applicable.

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
Bel-Ray Silicone DOT 5 Brake Fluid (Mixture)	LC50 Fish: 337 mg/l 96.00 hours estimated
Components	Test results
TRIBUTYL PHOSPHATE (126-73-8)	LC50 Fathead minnow (Pimephales promelas): 1 - 10 mg/l 96.00 hours

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

Ecotoxicity Not expected to be harmful to aquatic organisms.

Environmental Effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

authorities. Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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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.) No poison schedule

number allocated.

Inventory status

Country(s) or region	Inventory name On inventory (ye	es/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Voc" indicates that all compa	nents of this product comply with the inventory requirements administered by the governing country (c)	

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

16. OTHER INFORMATION

Risk phrase(s) R40 Limited evidence of a carcinogenic effect.

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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