

SAFETY DATA SHEET

1. Product and company identification

Product name Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50

Product code 99130 SDS number 6695

Bel-Ray Company PTY Limited

4 Ginger Street

Paget, QLD 4740 Australia

749525778

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Recommended use and Limitations on use

Not available

2. Hazards identification

GHS classification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Specific target organ toxicity following single Category 2 (Lung)

exposure

Specific target organ toxicity following Category 1 (Lung, skin)

repeated exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3 (90.6% of the mixture consists of

hazard

ingredient(s) of unknown hazards to the aquatic environment.) (<@1> % of the mixture consists of component(s) of unknown

hazards to the aquatic environment.)

Hazardous to the aquatic environment, Category 4 (34.61% of the mixture consists of

ingredient(s) of unknown hazards to the long-term hazard aquatic environment.) (<@1> % of the mixture consists of component(s) of unknown

hazards to the aquatic environment.)

Label elements

Symbols

Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye irritation. Causes eye irritation. Suspected of causing

genetic defects. May cause damage to organs (Lung). Causes damage to organs (Lung, skin) through prolonged or repeated exposure. Harmful to aquatic life. May cause long lasting harmful

effects to aquatic life.

Precautionary statement

SDS NEW ZEALAND 99130 Version No.: 4.0 Revision date: 06-August-2013 Print date: 07-August-2013 1/7 **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. Do not breathe mist or vapour. Avoid breathing mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye/face protection. Wear protective gloves/protective

clothing. Use personal protective equipment as required.

Response If medical advice is needed, have product container or label at hand. IF SWALLOWED: Call a

POISON CENTRE or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. Call a POISON CENTRE or doctor/physician if you feel unwell. Specific treatment (see this label). Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing. Take off

contaminated clothing and wash before reuse.

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 property	CAS Number	Concentration (%)
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	0 - < 100
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	0 - < 100
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	0 - < 100
Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based	72623-87-1	0 - < 100
Paraffin oils (petroleum), catalytic de-waxed light Paraffin Oils (petroleum), Catalytic Dewaxed Light	64742-71-8	0 - < 100
Residual Oils (petroleum), Solvent-refined	64742-01-4	0 - < 100
White mineral oil (petroleum) White Mineral Oil (petroleum)	8042-47-5	0 - < 100
Decanoic acid, Ester With 2-ethyl-2-(hydroxymethyl)-1,3-propanediol Octanoate	11138-60-6	3 - < 5
Decanoic Acid, Ester With 2-ethyl-2-(hydroxymethyl)-1,3-propanediol Octanoate		
Zinc, Dithiophosphate Di-c1-14-alkyl Esters	68649-42-3	< 1
2,5-bis(octyldithio)-1,3,4-thiadiazole	13539-13-4	< 0.2
Other components below reportable levels		3 - < 5

4. First aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact Remove contaminated clothing. Wash off with soap and plenty of water. For minor skin contact,

avoid spreading material on unaffected skin. Call a POISON CENTRE or doctor/physician if you feel

unwell.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do

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

Potential delayed effects

Personal protection for first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. Wash contaminated

clothing before reuse.

Not available.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Symptoms may be delayed.

5. Fire-fighting measures

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

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

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Specific hazards during fire

fighting

None None

Special fire fighting

procedures

None.

Protection of fire-fighters

Hazards from combustion

products

Water runoff can cause environmental damage.

May include oxides of Nitrogen. 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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

Spill cleanup methods

Remove sources of ignition. 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. Prevent product from entering drains.

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

Precautions Obtain special instructions before use. Do not taste or swallow. Use personal protective equipment

as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid

release to the environment. Do not empty into drains.

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

dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid

prolonged exposure. Avoid contact with clothing. Use personal protection recommended in Section

8 of the MSDS.

Prevention of fire and

explosion

No specific recommendations.

Storage

Suitable storage conditions

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep out of the

reach of children.

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	Form	
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.	
,	TWA	5 mg/m3	Mist.	
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	STEL	10 mg/m3	Mist.	
. ,	TWA	5 mg/m3	Mist.	

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Components	Туре	Value	Form
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ACGIH			
Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5) US. ACGIH Threshold Limit Values	TWA	5 mg/m3	Inhalable fraction.
Components	Туре	Value	Form
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

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

Components	Туре	Value	Form	
Distillates (petroleum), Hydrotreated Heavy	TWA	5 mg/m3	Mist.	
Naphthenic (64742-52-5)				
Distillates (petroleum), Hydrotreated Heavy	TWA	5 mg/m3	Mist.	
Paraffinic (64742-54-7)				
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.	
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Mist.	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m3	Mist.	
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.	

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 Wear suitable protective clothing. Wear protective gloves.

Eye/face protection Wear eye/face protection.

Radioactive or thermal

hazards

Not available.

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Hygiene measures

When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practices.

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9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid.

Liquid.

Colour Amber.

Amber.

Odour Petroleum Petroleum

Not available. Hq **Odour threshold** Not available. Melting point/freezing point Not available.

Boiling point, Initial boiling point, and boiling range

> 296 °C (> 564.8 °F)

194.00 °C (381.20 °F) Pensky-Martens Closed Cup Flash point

Auto-ignition temperature 260 °C (500 °F) estimated

Flammability limit - lower

(%)

1 % estimated

Flammability limit - upper

(%)

50 % estimated

Explosive limit Not available.

0.000011 hPa estimated Vapour pressure

Density 888.00 kg/m3 Vapour density Not available **Evaporation rate** Not available. Not available. Relative density Solubility Negligible

Solubility (other) Oil

Not available. Partition coefficient

(n-octanol/water)

Not available. **Decomposition temperature**

148.58 cSt ASTM D445 Viscosity Percent volatile 0.0846 % estimated

Other data

Flammability class Combustible IIIB estimated

Specific gravity 0.888

Viscosity temperature 40 °C (104 °F)

VOC (Weight %) 0.0846 % 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

dioxide.

Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon products

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

11. Toxicological information

Acute toxicity Harmful if swallowed. Harmful in contact with skin.

Product Test results Species

Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50 (Mixture)

Acute

Dermal

LD50 Rabbit 2620.5452 mg/kg, estimated

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Product	uct Species Test results	
Inhalation		
LC50	Rat	1545 mg/l, estimated
Oral		
LD50	Rat	2912.0559 mg/kg, estimated
		1182.0331 g/kg, estimated

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

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Discomfort in the chest. Shortness of breath. Coughing. Defatting of the skin. Skin irritation. **Symptoms**

Irritant effects. Rash.

Skin corrosion/irritation Causes skin irritation.

Serious eve Causes serious eye irritation.

damage/irritation

Respiratory sensitiser Due to lack of data the classification is not possible. Skin sensitiser Causes skin irritation. May cause an allergic skin reaction.

Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity May cause cancer.

Toxic to reproduction Due to lack of data the classification is not possible.

Specific target organ toxicity

Specific target organ toxicity

- single exposure

- repeated exposure

Lungs. May cause damage to organs (Lung). Due to lack of data the classification is not possible.

Causes damage to organs. Skin. Lungs. Lung, skin. Causes damage to organs (Lung, skin) through prolonged or repeated exposure. Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

Relevant negative data Not available.

12. Ecological information

Ecotoxicological data

Product		Species	Test results	
Bel-Ray EXP Synthetic Ester Blend 4T Engine Oil 15W-50 (Mixture)				
Crustacea	EC50	Daphnia	579.1962 mg/l, 48 hours, estimated	
Fish	LC50	Fish	250.7857 mg/l, 96 hours, estimated	

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

Ecotoxicity Accumulation in aquatic organisms is expected. Harmful to aquatic life. May cause long lasting

harmful effects to aquatic life.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulation Not available.

Mobility This product is miscible in water.

Other hazardous effects Not available.

13. Disposal considerations

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

Disposal

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

2,5-bis(octyldithio)-1,3,4-thiadiazole (CAS 13539-13-4)

May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own

Decanoic acid, Ester With

2-ethyl-2-(hydroxymethyl)-1,3-propanediol Octanoate

(CAS 11138-60-6)

Distillates (petroleum), Hydrotreated Heavy Naphthenic

(CAS 64742-52-5)

Distillates (petroleum), Hydrotreated Heavy Paraffinic

(CAS 64742-54-7)

Distillates (petroleum), Solvent-refined Heavy Paraffinic

(CAS 64741-88-4)

Lubricating Oils (petroleum), C20-50, Hydrotreated

Neutral Oil-based (CAS 72623-87-1)

Paraffin oils (petroleum), catalytic de-waxed light (CAS

64742-71-8)

Residual Oils (petroleum), Solvent-refined (CAS

64742-01-4)

White mineral oil (petroleum) (CAS 8042-47-5)

Zinc, Dithiophosphate Di-c1-14-alkyl Esters (CAS 68649-42-3)

group standard

May be used as a single component chemical under an appropriate

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group standard

May be used as a single component chemical under an appropriate

group standard

May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own

May be used as a single component chemical under an appropriate

group standard

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group standard

May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

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 date 26-October-2011 **Revision date** 07-August-2013

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