



MATERIAL SAFETY DATA SHEET

1. Identification

Product name	Bel-Ray Thumper Gear Saver Transmission Oil 80W-85
Product code	99510
SDS number	6418
	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

Recommended use	Not available.
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2. Hazards identification

GHS classification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, inhalation	Category 4 (99.04 % of the mixture consists of component(s) of unknown toxicity.)
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity following single exposure	Category 2 (Lung)
	Specific target organ toxicity following repeated exposure	Category 1 (Lung, skin)
Environmental hazards	Not classified.	

GHS label elements

Pictograms



Signal word

Danger

Hazard statement

Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause damage to organs (Lung). Causes damage to organs (Lung, skin) through prolonged or repeated exposure.

Precautionary statement

Prevention

Keep out of reach of children. Read label before use. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection. Wear protective gloves. Use only outdoors or in a well-ventilated area.

Response

If medical advice is needed, have product container or label at hand. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. 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

Chemical name	CAS Number	Concentration (%)
Residual Oils (petroleum), Solvent-refined	64742-01-4	30 - < 40
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	20 - < 30
Distillates (petroleum), Solvent-refined Heavy Paraffinic	64741-88-4	20 - < 30
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	1 - < 3
Other components below reportable levels		10 - < 20

Composition comments The full text for all R-phrases is displayed in Section 16.

4. First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTRE or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.
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	Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Never give liquid to an unconscious person.
Most important symptoms/effects, acute and delayed	Irritation of eyes and mucous membranes. Discomfort in the chest. Shortness of breath. Coughing. Irritant effects. Defatting of the skin. Skin irritation. Rash. Prolonged exposure may cause chronic effects.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media	Water spray. Water fog. Foam. Dry powder. Carbon dioxide (CO ₂).
Extinguishing media to avoid	Do not use water jet as an extinguisher, as this will spread the fire. Water.
Specific hazards during fire fighting	None.
Special fire fighting procedures	None.
Protection of fire-fighters	None.

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. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Spill cleanup methods	<p>Remove sources of ignition.</p> <p>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.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13.</p>

7. Handling and storage

Handling

Precautions	Wash hands thoroughly after handling.
Safe handling advice	Avoid breathing vapour. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Use personal protection recommended in Section 8 of the MSDS.

Storage

Suitable storage conditions	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

Control parameters/Occupational exposure limits

Singapore. PELs. (Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order)

Components	Type	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.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

ACGIH

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

Appropriate engineering control 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	In case of insufficient ventilation, wear suitable respiratory equipment.
Skin protection	Wear suitable protective clothing. Wear protective gloves.
Eye/face protection	Wear eye/face protection.
Thermal hazards	Not available.
Hygiene measures	Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid. Liquid.
Colour	Red. Red.

Odour	Mild. Mild.
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Odour threshold	Not available.
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pH	Not available.
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Melting point/freezing point	Not available.
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Boiling point, Initial boiling point, and boiling range	316 °C (600.8 °F)
Flash point	174.00 °C (345.20 °F) Pensky-Martens Closed Cup
Auto-ignition temperature	260 °C (500 °F) estimated
Flammability (solid, gas)	Not available.
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	50 % estimated
Explosive limit	Not available.
Vapour pressure	0.000002 hPa estimated
Density	894.00 kg/m3
Vapour density	Not available.
Evaporation rate	Not available.
Relative density	Not available.
Solubility	Negligible
Solubility (other)	Oil Solvents
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	0.0032 % estimated
Other data	
Flammability class	Combustible IIIB estimated
Specific gravity	0.894
VOC (Weight %)	0.0032 % estimated

10. Stability and reactivity

Reactivity	Strong oxidizing agents.
Stability	Material is stable under normal conditions.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Incompatible materials	None known.
Hazardous decomposition products	Toxic gas. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Acute toxicity	Harmful if inhaled.
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Product	Species	Test results
Bel-Ray Thumper Gear Saver Transmission Oil 80W-85 (Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2131.9675 mg/kg, estimated
<i>Inhalation</i>		
LC50	Rat	617.9984 mg/l, estimated
<i>Oral</i>		
LD50	Rat	2352.614 mg/kg, estimated

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

Routes of exposure	Inhalation. Skin contact. Eye contact. Not applicable.
Symptoms	Discomfort in the chest. Shortness of breath. Coughing. Defatting of the skin. Skin irritation. Irritant effects. Rash.
Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation	Causes serious eye irritation. None known.
Respiratory sensitiser	Due to lack of data the classification is not possible.
Skin sensitiser	Due to lack of data the classification is not possible.
Germ cell mutagenicity	Due to lack of data the classification is not possible.
Carcinogenicity	Due to lack of data the classification is not possible.
Toxic to reproduction	Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	May cause damage to organs (Lung). Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Causes damage to organs (Lung, skin) through prolonged or repeated exposure. Due to lack of data the classification is not possible.
Aspiration hazard	Due to lack of data the classification is not possible.
Chronic effects	Prolonged inhalation may be harmful.
Relevant negative data	Not available.

12. Ecological information

Ecotoxicological data

Product	Species	Test results
Bel-Ray Thumper Gear Saver Transmission Oil 80W-85 (Mixture)		
Fish	LC50	Fish
		132.9834 mg/l, 96 hours, estimated

* 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	
Mobility	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

ADR	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
SEA (Annex II of MARPOL 73/78 and the IBC Code)	None.

15. Regulatory information

Inventory status

Country(s) or region	Inventory name	On inventory (yes/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
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
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	16-June-2010
Revision date	07-June-2013
Key/legend	Not applicable.