



SAFETY DATA SHEET

1. Product and company identification

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

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Recommended use and Limitations on use

Not available.

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	Hazardous to the aquatic environment, acute hazard	Category 3 (99.32 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.)
	Hazardous to the aquatic environment, long-term hazard	Category 4 (72.63 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.)

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements

Symbols



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. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

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. Do not breathe mist or vapour. 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. Do not get this material in contact with skin. Do not get this material in contact with eyes. Do not get this material on clothing. 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. Immediately call a POISON CENTRE or doctor/physician. Specific treatment (see this label). If eye irritation persists: Get medical advice/attention. Remove/Take off immediately all contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 (%)
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
Phosphorodithioic Acid, O,o-di-c1-14-alkyl Esters, Zinc Salts	68649-42-3 < 1
Other components below reportable levels	10 - < 20

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	Take off immediately all contaminated clothing. IF ON SKIN: Gently wash with plenty of soap and water. Call a physician or poison control centre immediately. For minor skin contact, avoid spreading material on unaffected skin.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Never give liquid to an unconscious person.
Potential delayed effects	Not available.
Personal protection for first-aid responders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated.
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.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	None.
Special fire fighting procedures	None.
Protection of fire-fighters	Water runoff can cause environmental damage.
Hazards from combustion products	Carbon monoxide and carbon dioxide.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. 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 damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering them. In case of spills, beware of slippery floors and surfaces.

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.

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. Do not get this material in contact with skin. Do not get this material in contact with eyes. Avoid prolonged exposure. Do not get this material on 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	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	STEL	10 mg/m ³	Mist.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	TWA	5 mg/m ³	Mist.
	STEL	10 mg/m ³	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m ³	Mist.
	STEL	10 mg/m ³	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	TWA	5 mg/m ³	Mist.
	STEL	10 mg/m ³	Mist.

ACGIH

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m ³	Inhalable fraction.

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

Components	Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (64742-01-4)	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.

Personal protective equipment

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Skin protection

Wear appropriate chemical resistant clothing. Wear protective gloves.

Eye/face protection

Avoid contact with eyes. Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Radioactive or thermal hazards

Not available.

Hygiene measures

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on 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.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.
Liquid.

Colour

Red.
Red.

Odour

Mild.
Mild.

pH

Not available.

Odour threshold

Not available.

Melting point/freezing point

Not available.

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.
Percent volatile	0.0032 % estimated
Other data	
Flammability class	Combustible III B estimated
Specific gravity	0.894
VOC (Weight %)	0.0032 % 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	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 Fatal in contact with skin. Harmful if inhaled.

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.
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	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	May cause cancer. Not classifiable as to carcinogenicity to humans.
Toxic to reproduction	Contains no ingredient listed as toxic to reproduction Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Lungs. May cause damage to organs (Lung). Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Skin. Lungs. 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 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

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

International regulations

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

Applicable regulations

New Zealand Inventory of Chemicals (NZIoC): Registration status

Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	May be used as a single component chemical under an appropriate group standard
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	May be used as a single component chemical under an appropriate group standard
Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4)	May be used as a single component chemical under an appropriate group standard
Phosphorodithioic Acid, O,o-di-c1-14-alkyl Esters, Zinc Salts (CAS 68649-42-3)	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.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	May be used as a single component chemical under an appropriate group standard

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
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

ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents

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.

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07-June-2013