



SAFETY DATA SHEET

1. Product and company identification

Product name Bel-Ray Gear Saver Transmission Oil 80W
Product code 99250
SDS number 6416

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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 (99.47% of the mixture consists of ingredient(s) of unknown toxicity.) (<@1> % of the mixture consists of component(s) of unknown toxicity.)
	Skin corrosion/irritation	Category 3
	Serious eye damage/eye irritation	Category 2B
	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 (99.3% of the mixture consists of 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, long-term hazard	Category 4 (10.06% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.) (<@1> % 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 mild skin irritation. Causes 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. Use only outdoors or in a well-ventilated area.
Response	If medical advice is needed, have product container or label at hand. 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. IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. 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 to 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), Solvent-refined Heavy Paraffinic	64741-88-4	80 - < 90	
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	5 - < 10	
Zinc, Dithiophosphate Di-c1-14-alkyl Esters	68649-42-3	< 1	
Other components below reportable levels		5 - < 10	

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	Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. 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	IF SWALLOWED: 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.
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. IF exposed or concerned: Get medical advice/attention.
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	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. 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.
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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. Avoid contact with eyes. Avoid prolonged exposure. 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 Paraffinic (64742-54-7)	STEL	10 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)			
Components	Type	Value	Form
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.

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.
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Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Skin protection	Normal work clothing (long sleeved shirts and long pants) is recommended.
Eye/face protection	Avoid contact with eyes. 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. 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 360 °C (680 °F) estimated

Flash point 184.00 °C (363.20 °F) Pensky-Martens Closed Cup

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

Flammability (solid, gas) Not available.

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit Not available.

Vapour pressure Not available.

Density 883.00 kg/m³

Vapour density Not available.

Evaporation rate Not available.

Relative density Not available.

Solubility Negligible

Solubility (other) Oil

Partition coefficient (n-octanol/water) Not available.

Decomposition temperature Not available.

Viscosity 9 - 10.5 cSt

Percent volatile 0.0032 % estimated

Other data

Flammability class Combustible IIIB estimated

Specific gravity 0.883

Viscosity temperature 100 °C (212 °F)

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 Harmful if inhaled. Harmful if swallowed.

Routes of exposure Inhalation. Skin contact. Eye contact.

Symptoms	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioural changes. Coughing. Oedema. Liver enlargement. Jaundice. Proteinuria. Defatting of the skin. Skin irritation. Irritant effects. Rash.
Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/irritation	Causes 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	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.
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

Ecotoxicity	Accumulation in aquatic organisms is expected. Not expected to be harmful to aquatic organisms. 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 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
Zinc, Dithiophosphate Di-c1-14-alkyl Esters (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.

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

Country(s) or region	Inventory name	On inventory (yes/no) *
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	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 "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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24-April-2013

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