



# SAFETY DATA SHEET

## 1. Product and company identification

**Product name** Bel-Ray Gear Saver Hypoid Gear Oil 80W-90  
**Product code** 99230  
**SDS number** 6789

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## Recommended use and Limitations on use

**Recommended use** Gear oil

## 2. Hazards identification

### GHS classification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Hazardous to the aquatic environment, acute Category 3 hazard  
Hazardous to the aquatic environment, long-term hazard Category 3

### Label elements

**Symbols** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.

### Precautionary statement

**Prevention** Keep out of reach of children. Read label before use.  
**Response** If medical advice is needed, have product container or label at hand.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Supplemental information** None.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Chemical property	CAS Number	Concentration (%)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	0 - < 100
Distillates (petroleum), Solvent-refined Heavy Paraffinic		
Other components below reportable levels		70 - < 80

## 4. First aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

Material name: Bel-Ray Gear Saver Hypoid Gear Oil 80W-90

99230 Version No.: 5.0 Revision date: 28-May-2016 Print date: 28-May-2016

SDS NEW ZEALAND

1 / 6

<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give liquid to an unconscious person.
<b>Potential delayed effects</b>	Irritation of eyes and mucous membranes. Skin irritation.
<b>Personal protection for first-aid responders</b>	Not available.
<b>Notes to physician</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Extinguishing media to avoid</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>HAZCHEM Code Number</b>	None.
<b>Specific hazards during fire fighting</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures</b>	Not available.
<b>Protection of fire-fighters</b>	Wear suitable protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Hazards from combustion products</b>	Carbon monoxide and carbon dioxide.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Spill cleanup methods</b>	<p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapours or divert vapour cloud drift. 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 to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

## 7. Handling and storage

<b>Handling</b>	
<b>Precautions</b>	Use personal protection recommended in Section 8 of the SDS.
<b>Safe handling advice</b>	Observe good industrial hygiene practices.
<b>Prevention of fire and explosion</b>	No specific recommendations.
<b>Local and general ventilation</b>	Provide adequate ventilation.
<b>Storage</b>	
<b>Suitable storage conditions</b>	Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).
<b>Incompatible materials</b>	Strong oxidising agents. For further information, please refer to section 10.
<b>Safe packaging materials</b>	Store in original tightly closed container.

## 8. Exposure controls/personal protection

### Exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)**

Components	Type	Value	
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	TWA	5 mg/m3	

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

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	TWA	5 mg/m3	Mist.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**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.

**Hand protection**

Wear appropriate chemical resistant gloves.

**Skin protection**

Wear suitable protective clothing.

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Radioactive or thermal hazards**

Follow standard monitoring procedures.

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance**

Oily. Liquid.

**Physical state**

Liquid.

**Form**

Liquid.

**Colour**

Red.

**Odour**

Petroleum

**Odour threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not available.

**Boiling point, initial boiling point, and boiling range**

> 500 °C (> 932 °F)

**Flash point**

232.0 °C (449.6 °F) Pensky-Martens Closed Cup

**Auto-ignition temperature**

Not available.

**Flammability (solid, gas)**

Not available.

**Flammability limit - lower (%)**

Not available.

**Flammability limit - upper (%)**

Not available.

**Explosive limit - lower (%)**

Not available.

**Explosive limit – upper (%)**

Not available.

**Vapour pressure**

Not available.

**Density**

894.00 kg/m3

**Vapour density**

Not available.

**Evaporation rate**

Not available.

**Relative density**

Not available.

**Solubility(ies)**

**Solubility (water)**

Negligible

**Solubility (other)**

Oil

Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	165 cSt ASTM D445
Viscosity temperature	40 °C (104 °F)
Percent volatile	< 1 %
<b>Other data</b>	
Flash point class	Combustible IIIB
Specific gravity	0.89
VOC	< 1 %

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	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

### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.

Product	Species	Test results
Bel-Ray Gear Saver Hypoid Gear Oil 80W-90		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	2094 mg/kg estimated
<b>Oral</b>		
LD50	Rat	2094 mg/kg estimated

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

Routes of exposure	Inhalation. Eye contact.
Symptoms	Irritation of eyes and mucous membranes. Skin irritation.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitiser	Based on available data, the classification criteria are not met.
Skin sensitiser	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Toxic to reproduction	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Not available.
Relevant negative data	Not available.

## 12. Ecological information

### Ecotoxicological data

Product	Species		Test results
Bel-Ray Gear Saver Hypoid Gear Oil 80W-90			
Aquatic			
Fish	LC50	Fish	171.2622 mg/l, 96 hours estimated

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

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulation</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>Mobility</b>	This product is miscible in water.
<b>Other hazardous effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## 14. Transport information

<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

### Applicable regulations

#### New Zealand Inventory of Chemicals (NZIoC): Registration status

Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	May be used as a single component chemical under an appropriate group standard
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### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

### References

Not available.

### Issued by

Not available.

### Prepared by

Not available.

### Disclaimer

Bel-Ray Company, LLC 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.

### Issue date

04-August-2011

### Revision date

28-May-2016

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.