



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation Bel-Ray Si-7 Synthetic 2T Engine Oil

Product code 99440

MSDS Number 6421

Version No. 1,0

Revision Date 09-February-2011

Manufacturer

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2. HAZARDS IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments

Classification R43

Physical hazards Not classified as a physical hazard.

Health hazards May cause sensitization by skin contact. Prolonged exposure may cause chronic effects.

Environmental hazards Not classified as an environmental hazard.

Specific hazards No hazards resulting from the material as supplied.

Main symptoms Irritation of nose and throat. Irritation of eyes and mucous membranes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Classification	CAS-No.	%	EC-No. / REACH Registration No.	Notes
Synthetic Base Oils		64742-54-7	70 - 60	265-157-1	#
Distillates (petroleum), hydrotreated light	Xn;R65	64742-47-8	20 - 30	265-149-8	#
DODECYL PHENOL (BRANCHED)	Xi;R38, N;R50/53	121158-58-5	0,1 - 1	310-154-3	

#: This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
The full text for all R-phrases is displayed in Section 16.

4. FIRST-AID MEASURES

Inhalation Move to fresh air. Get medical attention, if needed.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give liquid to an unconscious person.

General advice Call a physician if symptoms develop or persist.

5. FIRE-FIGHTING MEASURES

Fire fighting equipment/instructions In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

Suitable extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO₂).

Specific methods Cool containers exposed to flames with water until well after the fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions In case of spills, beware of slippery floors and surfaces.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapours or divert vapour cloud drift.

Methods for cleaning up Large Spills: Dike far ahead of spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling.

Storage Room temperature - normal conditions. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Belgium

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light (64742-47-8)	TWA	200 mg/m ³	Vapor.
Synthetic Base Oils (64742-54-7)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Denmark

Components	Type	Value	Form
Synthetic Base Oils (64742-54-7)	TLV	1 mg/m ³	Mist.

Netherlands

Components	Type	Value	Form
Synthetic Base Oils (64742-54-7)	TWA	5 mg/m ³	Mist.

Spain

Components	Type	Value	Form
Synthetic Base Oils (64742-54-7)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Sweden

Components	Type	Value	Form
Distillates (petroleum), hydrotreated light (64742-47-8)	STEL	500 mg/m ³	
	TWA	350 mg/m ³	
Synthetic Base Oils (64742-54-7)	STEL	3 mg/m ³	Mist.
	TWA	1 mg/m ³	Mist.

Exposure 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.

Occupational exposure controls

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection Not normally needed.

Eye protection Not normally needed.

Skin and body protection No special protective equipment required.

General Applicable for industrial settings only: Use personal protective equipment as required. Keep working clothes separately.

Hygiene measures Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Oily.
Physical state	Liquid
Form	Liquid.
Colour	Blue.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Boiling point	200 °C (392 °F)
Flash point	90 °C (194 °F) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	5 estimated
Flammability limits in air, lower, % by volume	0,6 estimated
Vapour pressure	0,03 hPa estimated
Density	866 kg/m ³
Relative density	Not available.
Solubility (water)	Negligible
Solubility (other)	Oil Solvents
Partition coefficient (n-octanol/water)	Not available.
Viscosity	43,62 cSt @ 40 °C (104 °F)
Vapour density	Not available.
Evaporation rate	Not available.
Melting point/Freezing point	Not available.
Auto-ignition temperature	251 °C (483,8 °F) estimated
VOC	26 %
Percent volatile	26 %

10. STABILITY AND REACTIVITY

Hazardous decomposition products	Irritants. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Stability	Material is stable under normal conditions.
Materials to avoid	Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Test results
Bel-Ray Si-7 Synthetic 2T Engine Oil (Mixture)	Acute Dermal LD50 Rabbit: 18954 mg/kg estimated Acute Inhalation LC50 Rat: 55738 mg/m estimated Acute Inhalation LC50 Rat: 309 mg/l estimated Acute Oral LD50 Rat: 55335 mg/kg estimated

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

Routes of exposure	Inhalation. Not applicable.
Chronic toxicity	Prolonged inhalation may be harmful.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductivity	Contains no ingredient listed as toxic to reproduction
Epidemiology	No epidemiological data is available for this product.
Local effects	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Contact with eyes may cause irritation. May cause skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains 1,3,4-THIADIAZOLE, 2,5-BIS(OCTYLDITHIO)-, DIOCTYL DISULFIDE, Distillates (petroleum), hydrotreated light, Synthetic Base Oils

Symbol(s)



Irritant

R-phrases(s) R43 May cause sensitization by skin contact.

S-phrases(s) S1/2 Keep locked up and out of the reach of children.
S24 Avoid contact with skin.
S36/37 Wear suitable protective clothing and gloves.

Other regulations The product does not need to be labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Water hazard class

VwVwS WGK1

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3 R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R65 Harmful: may cause lung damage if swallowed.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	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)

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. 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

09-February-2011

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
FIRST-AID MEASURES: Ingestion