MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name **Primary Chaincase Lubricant**

Product code 96920

SDS Number 6790

Recommended use Motorcycle Transmission Oil

Version No. 3.0

Manufacturer

Bel-Ray Company, LLC
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)

Bel-Ray Company, LLC
PO Box 526
Farmingdale, New Jersey USA 07727
1 732-938-2421
CHEMTREC: 1800 069 100 (AUS)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Risk phrase(s) None.

Safety phrase(s) None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	0< 100
Antimony, Tris(dipentylcarbamodithioato)	15890-25-2	< 10
Ethylbenzene	100-41-4	< 10
Xylene (all Isomers)	1330-20-7	< 10
Other components below reportable levels		> 60

4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. 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 Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately. Do not induce vomiting. Never give liquid to an unconscious person.

General advice If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

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

Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire.

Hazchem Code None.

Hazardous combustion products Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. For personal protection, see section 8.

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.

Methods for cleaning up This product is miscible in water.

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.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. HANDLING AND STORAGE

Handling Avoid prolonged exposure. Use care in handling/storage.

Storage Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the MSDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

ACGIH

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m3
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Xylene (all Isomers) (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3 125 ppm
	TWA	434 mg/m3 100 ppm
Xylene (all Isomers) (CAS 1330-20-7)	STEL	655 mg/m3 150 ppm
	TWA	350 mg/m3 80 ppm

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

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	TWA	0.5 mg/m3	

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3 125 ppm	
	TWA	434 mg/m3 100 ppm	
Xylene (all Isomers) (CAS 1330-20-7)	STEL	655 mg/m3 150 ppm	
	TWA	350 mg/m3 80 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Xylene (all Isomers) (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures

Additional exposure data Not available.

Engineering 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. General ventilation normally adequate.

Personal protective equipment

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

Hand protection Not normally needed.

Eye protection If contact is likely, safety glasses with side shields are recommended.

Skin and body protection Wear suitable protective clothing.

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

Physical state Liquid.

Form Liquid.

Colour Not available.

Odour Not available.

Odour threshold Not available.

pH Not available.

Vapour pressure 0.13 hPa estimated

Density 883.00 kg/m3

Vapour density Not available.

Boiling point 360 °C (680 °F)
343 °C (649.4 °F) estimated

Melting point/freezing point Not available.

Solubility (water) Negligible

Solubility (other)	Oil
Specific gravity	0.88
Flash point	184.0 °C (363.2 °F) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	50 % estimated
Flammability limits in air, lower, % by volume	1 % estimated
Auto-ignition temperature	260 °C (500 °F) estimated
Viscosity	9 - 10.5 cSt
Viscosity temperature	100 °C (212 °F)
Percent volatile	0.003 % estimated

10. STABILITY AND REACTIVITY

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide. No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Product	Species	Test results
Primary Chaincase Lubricant (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	3180.3552 mg/kg estimated
Inhalation		
LC50	Rat	1544.9899 mg/l, 4 hours estimated
Oral		
LD50	Rat	3186.3462 mg/kg estimated

Components	Species	Test results
Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)		
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Oral		
LD50	Rat	> 16000 mg/kg
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
Other		
LD50	Mouse	2272 mg/kg
Xylene (all Isomers) (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

Components	Species	Test results
Other		
LD50	Rat	3.8 mg/kg

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

Routes of exposure Inhalation. Skin contact. Eye contact.

Chronic toxicity Prolonged inhalation may be harmful.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
XYLENES (CAS 1330-20-7)	3 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 Not classified.

Epidemiology No epidemiological data is available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Components		Species	Test results
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Xylene (all Isomers) (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours

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

Ecotoxicity Not expected to be harmful to aquatic organisms.

Mobility This product is miscible in water.

Bioaccumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Ethylbenzene	3.15
Xylene (all Isomers)	3.12 - 3.2

13. DISPOSAL CONSIDERATIONS

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

ADG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. REGULATORY INFORMATION

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.) No poison schedule number allocated.

Australia HVIC: Listed substance

Xylene (all Isomers) (CAS 1330-20-7)	Listed.

Australia Medicines & Poisons Schedule 4: Use/Concentration (%)/Exceptions

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	for therapeutic use

Australia Medicines & Poisons Schedule 5: Use/Concentration/Exceptions

Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

Australia Medicines & Poisons Schedule 6: Use/Concentration/Exceptions

Antimony, Tris(dipentylcarbamodithioato) (CAS 15890-25-2)	applies to all preparations in any concentration Exception may apply, see the regulation for relevance.
Xylene (all Isomers) (CAS 1330-20-7)	Exception may apply, see the regulation for relevance.

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	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)
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

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.

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This data sheet contains changes from the previous version in section(s): This document has undergone significant changes and should be reviewed in its entirety.