

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 28.11.2013

Revision: 28.11.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: MOTORKOTE LOW SULFUR LUBRICITY**

**Recommended Use of the Chemical and Restriction on Use:**

Motorkote fuel optimizer was formulated to off-set the diminishing quality of fuel and remove harmful deposits that rob your injectors of power and performance. Helps your fuel burn cleaner and hotter for better fuel economy and performance.

**Details of Manufacturer or Importer:**

Verditure Trading Co. Pty Ltd  
52 Henderson Street  
Camp Hill QLD 4152

**Phone Number:** 07 3395 4705

**Emergency telephone number:** 1300 138 300

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS08 health hazard

Carc. 2      H351 Suspected of causing cancer.  
Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H332 Harmful if inhaled.  
Acute Tox. 5      H313 May be harmful in contact with skin.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H226 Flammable liquid and vapour.  
H313 May be harmful in contact with skin.  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P210      Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P241      Use explosion-proof electrical/ventilating/lighting/equipment.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P273 Avoid release to the environment.
- P243 Take precautionary measures against static discharge.
- P271 Use only outdoors or in a well-ventilated area.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P391 Collect spillage.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national regulations.

### 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304	80-90%
64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠ Asp. Tox. 1, H304	4-5%
112-80-1	9-Octadecenoic acid, (Z)- ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2A, H319; STOT SE 3, H335	4-5%
27247-96-7	Nitric acid, 2-ethylhexyl ester ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; H227; H401	1-5%
95-63-6	Benzene, 1,2,4-trimethyl- ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	1-2%
91-20-3	naphthalene ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; H227	1-2%

### 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

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**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**Information for Doctor****Symptoms Caused by Exposure:**

Inhalation: Irritation of nose, throat and respiratory tract.

Skin contact: Redness, dryness and irritation.

Eye contact: Redness, stinging and irritation.

Ingestion: Nausea, vomiting, dizziness, headache and blurred vision.

**5 . FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Dry chemical, foam or water fog.

**Specific Hazards Arising from the Chemical:**

Closed containers may explode when exposed to extreme heat. Use water spray to cool fire exposed containers.

Hazardous combustion products include carbon monoxide and unidentified organic compounds.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

**6 . ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools. Ensure adequate ventilation. Extinguish all sources of ignition. Flush area for trace residue.

**7 . HANDLING AND STORAGE****Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

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**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

<b>8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION</b>
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**Exposure Standards:**

Oil mist:

TWA: 5 mg/m<sup>3</sup>

<b>91-20-3 naphthalene</b>
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NES	STEL: 79 mg/m <sup>3</sup> , 15 ppm
	TWA: 52 mg/m <sup>3</sup> , 10 ppm

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Personal Protective Equipment (PPE):**

**Respiratory Protection:**

If workplace exposure limit is exceeded, a Safe Work Australia approved respiratory protection is recommended. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

<b>9 . PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear amber
<b>Odour:</b>	Solvent
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not determined.
<b>Melting point/Melting range:</b>	Undetermined.
<b>Initial Boiling Point/Boiling Range:</b>	Undetermined.
<b>Flash Point:</b>	60 °C
<b>Flammability:</b>	Flammable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	Not determined.
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour Pressure:</b>	Not determined.
<b>Relative Density at 25 °C:</b>	0.79 g/cm <sup>3</sup>
<b>Vapour Density at 20 °C:</b>	>1 g/cm <sup>3</sup>
<b>Evaporation Rate at 20 °C:</b>	<1 g/cm <sup>3</sup>
<b>Solubility in Water:</b>	Insoluble
<b>Viscosity at 25 °C:</b>	<10 cps

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**10 . STABILITY AND REACTIVITY**

- Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.
- Chemical Stability:** Stable at ambient temperature and under normal conditions of use.
- Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.
- Incompatible Materials:** Strong oxidising agents.
- Hazardous Decomposition Products:** Carbon monoxide and unidentified organic compounds.

**11 . TOXICOLOGICAL INFORMATION**

**Toxicity:**

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>		
<b>64742-47-8 Distillates (petroleum), hydrotreated light</b>		
Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	5.2 mg/l (rat)
<b>112-80-1 9-Octadecenoic acid, (Z)-</b>		
Oral	LD <sub>50</sub>	74000 mg/kg (rat)
<b>27247-96-7 Nitric acid, 2-ethylhexyl ester</b>		
Oral	LD <sub>50</sub>	960 mg/kg (rat)
<b>95-63-6 Benzene, 1,2,4-trimethyl-</b>		
Oral	LD <sub>50</sub>	5000 mg/kg (rat)
<b>91-20-3 naphthalene</b>		
Oral	LD <sub>50</sub>	490 mg/kg (rat)
Dermal	LD <sub>50</sub>	5000 mg/kg (rat)

**Acute Health Effects**

- Inhalation:** Harmful if inhaled.
- Skin:** Harmful in contact with skin.
- Eye:** May cause irritation and redness.
- Ingestion:** May cause nausea, vomiting, dizziness, headache and blurred vision.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** No sensitising effects known.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:**

Naphthalene is classified by Safe Work Australia as Carcinogen Category 3.  
Naphthalene is classified by IARC as Group 2B - Possibly carcinogenic to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

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**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

**12 . ECOLOGICAL INFORMATION**

**Ecotoxicity:** Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

**13 . DISPOSAL CONSIDERATIONS**

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

**14 . TRANSPORT INFORMATION**

<b>UN Number</b>	UN1993
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	1993 FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light), ENVIRONMENTALLY HAZARDOUS
<b>ADG</b>	
<b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light, Nitric acid, 2-ethylhexyl ester), MARINE POLLUTANT
<b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	3 (F1) Flammable liquids.
<b>IMDG Class:</b>	3 Flammable liquids.
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-E,S-E
<b>Hazchem Code:</b>	.3Y
<b>Special Provisions:</b>	223, 274
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	Not applicable
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T4

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**Portable Tanks & Bulk Containers - Special Provisions:**

TP1, TP29

**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

64742-47-8	Distillates (petroleum), hydrotreated light
64742-94-5	Solvent naphtha (petroleum), heavy arom.
112-80-1	9-Octadecenoic acid, (Z)-
27247-96-7	Nitric acid, 2-ethylhexyl ester
95-63-6	Benzene, 1,2,4-trimethyl-
91-20-3	naphthalene

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Poisons Schedule: 5**16 . OTHER INFORMATION****Creation Date:** 28.11.2013**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
IARC: International Agency for Research on Cancer  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
NES: National Exposure Standard

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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