

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name: MOTORKOTE CETANE IMPROVER**

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

Improves fuel quality in all diesel engines. Cleans and increases 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

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      H302 Harmful if swallowed.  
Acute Tox. 4      H312 Harmful in contact with skin.  
Acute Tox. 4      H332 Harmful if inhaled.

**Label Elements**

**Signal Word** Danger

**Hazard Statements**

H226      Flammable liquid and vapour.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
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.  
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.

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- P242 Use only non-sparking tools.
- P273 Avoid release to the environment.
- P243 Take precautionary measures against static discharge.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- 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.
- P321 Specific treatment (see on this label).
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- 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.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P391 Collect spillage.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- 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 <span style="font-size: small;">⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304</span>	50-100%
27247-96-7	Nitric acid, 2-ethylhexyl ester <span style="font-size: small;">⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; H227; H401</span>	25-50%

### 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.

**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.

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**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:** Water fog, foam, carbon dioxide and dry chemical.**Specific Hazards Arising from the Chemical:**

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

**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.

**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.

**8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Standards:**

Oil mist:

TWA: 5 mg/m<sup>3</sup>**Engineering Controls:**

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

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**Personal Protective Equipment (PPE):**

**Respiratory Protection:**

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

**Skin Protection:**

Rubber, neoprene or vinyl 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.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear green
<b>Odour:</b>	Solvent
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	Not determined.
<b>Melting point/Melting range:</b>	Not applicable
<b>Initial Boiling Point/Boiling Range:</b>	85 °C
<b>Flash Point:</b>	25 °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>	0.768 g/cm <sup>3</sup>
<b>Vapour Density:</b>	>1 g/cm <sup>3</sup>
<b>Evaporation Rate at 20 °C:</b>	1.2 g/cm <sup>3</sup>
<b>Solubility in Water at 20 °C:</b>	70 g/l

## 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:** No hazardous decomposition products known.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**64742-47-8 Distillates (petroleum), hydrotreated light**

Oral	LD <sub>50</sub>	>5000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2000 mg/kg (rabbit)

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Inhalation	LC <sub>50</sub> /4 h	5.2 mg/l (rat)
<b>27247-96-7 Nitric acid, 2-ethylhexyl ester</b>		
Oral	LD <sub>50</sub>	960 mg/kg (rat)

**Acute Health Effects**

**Inhalation:** Harmful if inhaled.

**Skin:** Harmful in contact with skin.

**Eye:** May cause redness, stinging and irritation.

**Ingestion:** Harmful if swallowed.

**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:** This product does NOT contain any IARC listed chemicals.

**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.

**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**

**UN Number**

**ADG, IMDG, IATA**

UN1993

**Proper Shipping Name**

**ADG**

1993 FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light), ENVIRONMENTALLY HAZARDOUS

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<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, <u>S-E</u>
<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	
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	
	TP1, TP29

<b>15 . REGULATORY INFORMATION</b>
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<b>Australian Inventory of Chemical Substances:</b>	
64742-47-8	Distillates (petroleum), hydrotreated light
27247-96-7	Nitric acid, 2-ethylhexyl ester

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Poisons Schedule: 5

<b>16 . OTHER INFORMATION</b>
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**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

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# SAFETY DATA SHEET

According to Safe Work Australia

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**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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