

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- **Trade name:** Rislone® Octane Booster

- **Product code:** 44747

- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

- **Application of the substance / the mixture:** Treatment for gasoline.

- **Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier:**

Rislone

P.O. Box 187

Holly, MI 48442 USA

Phone: (810) 603-1321

- **Distributor:**



- **Emergency telephone number:**

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

## 2 Hazards identification

- **Classification (Australia, New Zealand)**

Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2011 National Code of Practice)

Australia ADG – Dangerous Goods (Classified according to National Transport Commission Australian Dangerous Goods Code)

New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)

- **Hazard statements (New Zealand HSNO Classification)**

HSNO 3.1C Flam. Liq. 3 H226 Flammable liquid and vapour.

HSNO 6.1C Inh. Tox. 3 H331 Toxic if inhaled.

HSNO 6.3B Skin Irr. 3 H316 Causes mild skin irritation.

HSNO 6.9A STOT RE1 H372 Causes damage to organs through prolonged or repeated exposure.

HSNO 6.1E Oral Tox. 5 H303 May be harmful if swallowed.

HSNO 6.1E Asp. Tox 1 H304 May be fatal if swallowed and enters airways

HSNO 9.1D Aquatic Acute 3 H402 Harmful to aquatic life.

HSNO 9.1C Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

HSNO 9.2C H423 Harmful to the soil environment.

HSNO 9.3C H433 Harmful to terrestrial vertebrates.

(Cont'd. on page 2)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 1)

- **GHS label elements**

Classifications listed also are applicable to the Australian and the New Zealand Codes of Practice for the writing of Safety Data Sheets.

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS06 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Stoddard solvent

tricarbonyl(methylcyclopentadienyl)manganese

- **Hazard statements**

The following Hazard Statements are only applicable to New Zealand, and are not applicable to Australia: H303, H316, H412, H423, H433.

H423 Harmful to the soil environment.

H433 Harmful to terrestrial vertebrates.

H226 Flammable liquid and vapour.

H303 May be harmful if swallowed.

H331 Toxic if inhaled.

H316 Causes mild skin irritation.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

The following Precautionary Statements are applicable only to New Zealand and not to Australia: P101, P102, P103, P273, P332+P313.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P331 Do NOT induce vomiting.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Cont'd. on page 3)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**





(Cont'd. from page 2)

- **Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

- **Components:**

8052-41-3	Stoddard solvent  Flam. Liq. 3, H226  STOT RE 1, H372; Asp. Tox. 1, H304 Skin Corr. 3, H316	>80%
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese  Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 1, H330  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<2%

- **Additional information:**

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). This product meets that requirement.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

For the wording of the listed Hazard Statements refer to section 16.

### 4 First aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air or oxygen; call for doctor.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

Do not induce vomiting; call for medical help immediately.

- **Most important symptoms and effects, both acute and delayed**

Headache

Breathing difficulty

(Cont'd. on page 4)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 3)

Coughing  
 Dizziness  
 Cramp  
 Slight irritant effect on eyes.  
 Causes mild skin irritation.  
 Gastric or intestinal disorders when ingested.  
 Nausea in case of ingestion.  
 Unconsciousness

· **Hazards:**

Danger of impaired breathing.  
 Toxic if inhaled.  
 Danger of disturbed cardiac rhythm.  
 May be fatal if swallowed and enters airways.  
 Causes damage to the central nervous system through prolonged or repeated exposure.  
 Vapours may cause drowsiness and dizziness.

· **Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.  
 Medical supervision for at least 48 hours.  
 If necessary oxygen respiration treatment.  
 Monitor circulation, possible shock treatment.  
 Later observation for pneumonia and pulmonary oedema.

## 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water haze or fog  
 Foam  
 Carbon dioxide  
 Gaseous extinguishing agents  
 Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.  
 Do not inhale explosion gases or combustion gases.  
 Wear fully protective suit.

· **Additional information:**

Eliminate all ignition sources if safe to do so.  
 Cool endangered receptacles with water fog or haze.

(Cont'd. on page 5)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 4)

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

Isolate area and prevent access.

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Prevent from spreading (e.g. by damming-in or oil barriers).

- **Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Remove from the water surface (e.g. skim or suck off).

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Rags / metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed, metal container rated for flammable waste.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Flammable gas-air mixtures may form in empty receptacles.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

(Cont'd. on page 6)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 5)

· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### 8052-41-3 Stoddard solvent

WES (Australia)	Long-term value: 790 mg/m <sup>3</sup>
PEL (USA)	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> Peak limitation: 1800* mg/m <sup>3</sup> *15-min
TLV (USA)	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm
WES (New Zealand)	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm

##### 12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

WES (Australia)	Long-term value: 0.2 mg/m <sup>3</sup> Sk
REL (USA)	Long-term value: 0.2 mg/m <sup>3</sup> Skin
TLV (USA)	Long-term value: 0.2 mg/m <sup>3</sup> as Mn; Skin
WES (New Zealand)	Long-term value: 0.2 mg/m <sup>3</sup> as Mn, skin

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

### · Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

#### · Respiratory protection:

- Use suitable respiratory protective device in case of insufficient ventilation.
- Use suitable respiratory protective device when aerosol or mist is formed.
- For spills, respiratory protection may be advisable.
- NIOSH or EN approved organic vapour respirator equipped with a dust/mist prefilter should be used.

(Cont'd. on page 7)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 6)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Oil resistant protective clothing

· **Limitation and supervision of exposure into the environment:**

No further relevant information available.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Light yellow
· <b>Odour:</b>	Petroleum-like
· <b>Odour threshold:</b>	Not determined.

· <b>pH-value:</b>	Not determined.
· <b>Melting point/Melting range:</b>	Not determined.
· <b>Boiling point/Boiling range:</b>	164 °C (327 °F)

· <b>Flash point:</b>	46 °C (115 °F)
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· <b>Flammability (solid, gaseous):</b>	Not applicable.
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· <b>Auto/Self-ignition temperature:</b>	Not determined.
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· <b>Decomposition temperature:</b>	Not determined.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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· **Explosion limits**

· <b>Lower:</b>	1.1 Vol %
· <b>Upper:</b>	6.0 Vol %

· <b>Oxidising properties</b>	Not determined.
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· <b>Vapour pressure:</b>	Not determined.
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· **Density:**

· <b>Relative density at 20 °C (68 °F):</b>	0.78 g/cm <sup>3</sup> (6.509 lbs/gal)
· <b>Vapour density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.

(Cont'd. on page 8)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 7)

- |   |  |
|---|--|
| <b>· Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.          |
| <b>· Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>· Viscosity</b>                                |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| <b>· Other information</b>                        | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **Possibility of hazardous reactions**  
Flammable.  
Reacts with strong acids and oxidising agents.  
Toxic fumes may be released if heated above the decomposition point.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Hydrocarbons  
Toxic metal oxide smoke

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

### 12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

Oral	LD50	58 mg/kg (rat)
Dermal	LD50	140 mg/kg (rabbit)
Inhalative	LC50/4h	0.076 mg/l (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Causes mild skin irritation.
- **Serious eye damage/irritation:** Slight irritant effect on eyes.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

- **IARC (International Agency for Research on Cancer):**

91-20-3 naphthalene

2B

(Cont'd. on page 9)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 8)

- **Probable routes of exposure:**
  - Ingestion.
  - Inhalation
  - Eye contact.
  - Skin contact.
- **Acute effects (acute toxicity, irritation and corrosivity):**
  - Toxic if inhaled.
  - Vapours have narcotic effect.
- **Repeated dose toxicity:** Danger of very serious irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:**
  - Causes damage to the central nervous system through prolonged or repeated exposure.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **New Zealand HSNO Environmental Code(s)**
  - HSNO Class: 9.1C Harmful to aquatic life with long lasting effects.
  - HSNO Class: 9.1D Harmful to aquatic life.
  - HSNO Class: 9.2C Harmful to the soil environment.
  - HSNO Class: 9.3C Harmful to terrestrial vertebrates.
- **Ecotoxicological effects:**
- **Remark:**
  - Harmful to fish
  - Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

(Cont'd. on page 10)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 9)

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT**

Not Regulated

Reclassified as combustible under US DOT regulations. Labeling is only required for single packages  $\geq 119$  US gal / 450 L to include Combustible symbol and Proper Shipping Name.

- **ADG, IMDG, IATA**

UN1993

- **UN proper shipping name**

- **DOT**

Not Regulated

- **ADG, IMDG**

FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)

- **IATA**

Flammable liquids, n.o.s. (Stoddard solvent)

- **Transport hazard class(es)**

- **DOT**

- **Class**

Not Regulated

- **ADG**



- **Class**

3 (F1) Flammable liquids.

- **Label**

3

- **IMDG, IATA**



- **Class**

3 Flammable liquids.

- **Label**

3

(Cont'd. on page 11)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 10)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>                              | <p style="text-align: right;">Not Regulated<br/>III</p>                           |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>   | <p style="text-align: right;">No</p>  |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> </ul> | <p style="text-align: right;">Warning: Flammable liquids.<br/>30<br/>F-E, S-E</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>                                 | <p style="text-align: right;">Not applicable.</p>                                 |

- **Transport/Additional information:**

- **ADG**



Limited Quantity for packages less than 30 kg and inner packagings less than 5L.

- **IMDG**



Limited Quantity for packages less than 30 kg and inner packagings less than 5L.

- **IATA**



Limited Quantity for packages less than 30 kg and inner packagings less than 10L.

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese
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- **Section 313 (Specific toxic chemical listings):**

12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese
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- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

(Cont'd. on page 12)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

<b>Trade name: Rislone® Octane Booster</b>
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(Cont'd. from page 11)

- **Carcinogenic Categories**

- **IARC (International Agency for Research on Cancer)**

91-20-3   naphthalene	2B
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- **Australia**

- **Australian Inventory of Chemical Substances**

All ingredients are listed.
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- **Standard for the Uniform Scheduling of Medicines and Poisons**

TGA Schedule 5 poison (Hydrocarbon Liquids)
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- **New Zealand**

- **HSNO Chemical Classification and Information Database (CCID)**

Some ingredients listed.
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- **New Zealand Inventory of Chemicals (NZIOC)**

All ingredients are listed.
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- **Chemical safety assessment**

New Zealand

Group Standard Allocation and EPA Approval Code:

Fuel Additives (Flammable) Group Standard 2006 Approval number- HSR002583

HSNO Control & Classes: 3.1C, 6.1C, 6.3B, 6.9A, 6.1E, 9.1D, 9.1C, 9.2C, 9.3C

Trigger quantities for this substance:

Location Certificate (3.1C)	500 L	(closed containers greater than 5L)
	1500 L	(closed containers up to and including 5L)
	250 L	(open containers)
Hazardous atmosphere zone (3.1C)	100 L	(closed containers)
	25 L	(decanting)
	5 L	(open occasionally)
	1 L	(open containers in continuous use)

Approved Handler Not Required

Fire extinguishers 500L (3.1C)

Signage Trigger Quantities 1 000L (all classes)

Emergency Response Plan Trigger Quantities 1 000L (9.1C)

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.
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## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin.

(Cont'd. on page 13)

# Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 25.07.2016

Revision: 25.07.2016

**Trade name: Rislone® Octane Booster**

(Cont'd. from page 12)

H316 Causes mild skin irritation.  
 H330 Fatal if inhaled.  
 H372 Causes damage to the central nervous system through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 LDLo: Lowest Lethal Dose Observed  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 5: Acute toxicity – Category 5  
 Acute Tox. 2: Acute toxicity – Category 2  
 Acute Tox. 1: Acute toxicity – Category 1  
 Skin Corr. 3: Skin corrosion/irritation – Category 3  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
 Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
 Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

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