













# Safety Data Sheet

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

Printing date: July

Revision: □ □ □ □ - □ ○ □ □ □ □ □ □

Trade name: Rislone® Hy-per Fuel Octane Booster

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## · 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

Form:	Liquid
Colour:	Light yellow
Odour:	Petroleum-like
Odour threshold:	Not determined.

· pH-value: Not determined.

· Melting point/Melting range: Not determined.

· Boiling point/Boiling range: 164 °C (327 °F)

· Flash point: 46 °C (115 °F)

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## · Explosion limits

Lower: 1.1 Vol %

Upper: 6.0 Vol %

· Oxidising properties: Not determined.

· Vapour pressure: Not determined.

## · Density:

Relative density at 20 °C (68 °F): 0.78 g/cm<sup>3</sup> (6.509 lbs/gal)

Vapour density: Not determined.

Evaporation rate: Not determined.

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- |   |  |
|---|--|
| <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

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- **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.

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## 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**

- **ADG, IMDG**

- **IATA**

Not Regulated  
FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)  
Flammable liquids, n.o.s. (Stoddard solvent)

- **Transport hazard class(es)**

- **DOT**

- **Class**

Not Regulated

- **ADG**



- **Class**

- **Label**

3 (F1) Flammable liquids.  
3

- **IMDG, IATA**



- **Class**

- **Label**

3 Flammable liquids.  
3

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- |   |                             |
|---|-----------------------------|
| <b>· Packing group</b>  |                             |
| <b>· DOT</b>  | Not Regulated               |
| <b>· ADG, IMDG, IATA</b>  | III                         |
| <b>· Environmental hazards:</b>   |                             |
| <b>· Marine pollutant:</b>  | No                          |
| <b>· Special precautions for user</b>                                       | Warning: Flammable liquids. |
| <b>· Danger code (Kemler):</b>  | 30                          |
| <b>· EMS Number:</b>  | F-E, S-E                    |
| <b>· Transport in bulk according to Annex II of Marpol and the IBC Code</b> |                             |
|   | Not applicable.             |

**· 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

**· Section 313 (Specific toxic chemical listings):**

12108-13-3 | tricarbonyl(methylcyclopentadienyl)manganese

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

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- **Carcinogenic Categories**

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

91-20-3 | naphthalene

2B

- **Australia**

- **Australian Inventory of Chemical Substances**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

TGA Schedule 5 poison (Hydrocarbon Liquids)

- **New Zealand**

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

Some ingredients listed.

- **New Zealand Inventory of Chemicals (NZIOC)**

All ingredients are listed.

- **Chemical safety assessment**

New Zealand

Group Standard Allocation and EPA Approval Code:

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

HSNO Control &amp; 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.

## 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.

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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

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)