

Safety Data Sheet

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According to The Model Work Health and Safety Regulations, and the
Globally Harmonized System of Classification and Labelling of
Chemicals 7th Revised Edition

Revision: 13 December 2022

Printing Date: 25 July 2016

1. Identification

Product identifier

Trade name: Rislone® Hy-per Fuel Octane Boost
Product code: 44747

Recommended use and restriction on use

Recommended use: Treatment of gasoline.

Restrictions on use: No further relevant information available.

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:

Smits Group Pty Ltd.
50 Radius Drive
Larapinda
QLD 4110
Australia
AUS Telephone 1800 883 888

Emergency telephone number:

ChemTel Inc.
(800) 255-3924 (North America)
+1 (813) 248-0585 (International)

New Zealand 0800 764 766 (National Poison Control Centre)
Australia 131126 (NSW Poison Control Centre)

2. Hazards identification

Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapour.
Inh. Tox. 3 H331 Toxic if inhaled.
Skin Irr. 3 H316 Causes mild skin irritation.
STOT RE1 H372 Causes damage to organs through prolonged or repeated exposure
Oral Tox. 5 H303 May be harmful if swallowed.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Acute 3 H402 Harmful to aquatic life.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
H423 Harmful to the soil environment.
H433 Harmful to terrestrial vertebrates.

GHS Label elements

This product is classified and labelled according to the Globally Harmonized System (GHS)

Hazard pictograms: Not Regulated

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GHS02 GHS06 GHS08

Signal word: Danger

Hazard-determining components of labelling:

Stoddard solvent

Tricarbonyl(methylcyclopentadienyl)manganese

Hazard Statements:

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:

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/protective clothing/eye 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.

Hazard description:

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 and information on ingredients

Chemical characterization: Mixtures

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Components:		
8052-41-3	Stoddard solvent Flam. Liq. 3, H223 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 ack 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

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:

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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 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. Fire-fighting 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.

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).

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Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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/shaving 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.

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 ³
PEL (USA)	Long-term value: 2900 mg/m ³ , 500ppm
REL (USA)	Long-term value: 350 mg/m ³ Peak limitation: 1800* mg/m ³ *15-min
TLV (USA)	Long-term value: 525 mg/m ³ , 100ppm
WES (New Zealand)	Long-term value: 525 mg/m ³ , 100ppm
12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese	

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

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Exposure controls

Engineering controls: Use only in a well-ventilated area.

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 and EN approved organic vapour respirator equipped with a dust/mist prefilter should be used.

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.

Risk management measures: No further relevant information available.

9. Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance	
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Trade Name: Rislone® Hy-per Fuel Octane Boost

Form	Liquid
Colour	Light yellow
Odour	Petroleum-like
Odour threshold	Not determined.
Change in condition	
Melting point/Melting range	Not determined.
Boiling point/Boiling range	164°C (327°F)
Flammability (solid, gaseous)	Not applicable.
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.
Flash point	46°C (115°F)
Auto/Self-ignition temperature	Not determined.
Decomposition temperature	Not determined.
pH-value	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Solubility in/Miscibility with water	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water) at 20°C	Not determined.
Vapour pressure	Not determined.
Density	
Relative density at 20°C (68°F)	0.78 g/cm ³ (6.509 lbs/gal)
Vapour density	Not determined.
Evaporation rate	Not determined.
Particle characteristics	Not determined.
Other information	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 atomized.

Conditions to avoid Excessive heat.

Incompatible materials: Oxidisers.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

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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

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.

Ecotoxicity

Remark:

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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.

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 ≥ 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	

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	3 Flammable liquids. 3
Class Label	
Packing group	
DOT	Not Regulated
ADG, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E, S-E
Transport in bulk according to Annex II of Marpol and the IBC Code	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
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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.

Carcinogenic Categories

IARC (International Agency for Research on Cancer)

91-20-3	naphthalene	2B
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Australia

Australian Inventory of Chemical Substances

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All ingredients are listed.
Standards for the Uniform Scheduling of Medicines and Poisons
TGA Schedule 5 poison (Hydrocarbon Liquids)

New Zealand

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 2020

Approval number- HSR002583

Trigger quantities for this substance:

Approved Handler Not Required

Fire extinguishers 500L

Signage Trigger Quantities 1 000L (all classes)

Emergency Response Plan Trigger Quantities 1 000L

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.

Date of preparation of latest revision of SDS

December 13, 2022: Revised SDS to comply with The Model Work Health and Safety Regulation, and the Globally Harmonized System of Classification and Labelling of Chemicals 7th Revised Edition.

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.

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

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LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
LDLo: Lowest Lethal Dose Observation
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)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/subreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. 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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