

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: **Rislone® Octane Booster**
- Product code: 24747

1.2 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.

1.3 Details of the supplier of the Safety Data Sheet

- Manufacturer/Supplier:
Rislone
P.O. Box 187
Holly, MI 48442 USA
Phone: (810) 603-1321



1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

Flam. Liq. 3	H226	Flammable liquid and vapour.
Acute Tox. 3	H331	Toxic if inhaled.
STOT RE 1	H372	Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS06 GHS08

Signal word Danger

Hazard-determining components of labelling:

Stoddard solvent
tricarbonyl(methylcyclopentadienyl)manganese

(Cont'd. on page 2)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 1)

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

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

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.

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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.

· **2.3 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Components:

CAS: 8052-41-3 EINECS: 232-489-3 Index number: 649-345-00-4	Stoddard solvent ----- ☠ Flam. Liq. 3, H226 ☠ STOT RE 1, H372; Asp. Tox. 1, H304	>80%
CAS: 12108-13-3 EINECS: 235-166-5	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.

(Cont'd. on page 3)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

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

(Cont'd. from page 2)

SECTION 4: First aid measures

· 4.1 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 is experienced, 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.

· 4.2 Most important symptoms and effects, both acute and delayed

Headache

Breathing difficulty

Coughing

Dizziness

Cramp

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

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.

· 4.3 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.

(Cont'd. on page 4)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 3)

SECTION 5: Firefighting measures

- **5.1 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
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 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.

SECTION 6: Accidental release measures

- **6.1 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.
- **6.2 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).
- **6.3 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.
- **6.4 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.

(Cont'd. on page 5)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 4)

SECTION 7: Handling and storage

7.1 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.

7.2 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.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

8052-41-3 Stoddard solvent

PEL (USA)	Long-term value: 2900 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 350 mg/m ³ Ceiling limit: 1800* mg/m ³ *15-min
TLV (USA)	Long-term value: 525 mg/m ³ , 100 ppm

12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

REL (USA)	Long-term value: 0,2 mg/m ³ Skin
TLV (USA)	Long-term value: 0,2 mg/m ³ as Mn; Skin

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

(Cont'd. on page 6)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 5)

· 8.2 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.

· 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.

SECTION 9: Physical and chemical properties

· 9.1 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.

(Cont'd. on page 7)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 6)

· 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 ³ (6,509 lbs/gal)
Vapour density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.
- **10.3 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.
- **10.4 Conditions to avoid** Excessive heat.
- **10.5 Incompatible materials** Oxidizers
- **10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Hydrocarbons
Toxic metal oxide smoke

(Cont'd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 7)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Toxic if inhaled.

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:** Slight irritant effect on skin and mucous membranes.

• **Serious eye damage/irritation:** Slight irritant effect on eyes.

• **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

Carcinogenic categories

IARC (International Agency for Research on Cancer):

91-20-3	naphthalene	2B
---------	-------------	----

NTP (National Toxicology Program):

91-20-3	naphthalene	R
---------	-------------	---

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

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.

• **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.

SECTION 12: Ecological information

12.1 Toxicity

• **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

(Cont'd. on page 9)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 8)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 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.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT | <p>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.</p> |
| <ul style="list-style-type: none"> · ADR, IMDG, IATA | <p>UN1993</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT · ADR, IMDG · IATA | <p>Not Regulated
FLAMMABLE LIQUID, N.O.S. (Stoddard solvent)
Flammable liquids, n.o.s. (Stoddard solvent)</p> |

(Cont'd. on page 10)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 9)

· **14.3 Transport hazard class(es)**

· DOT

· Class

Not Regulated

· ADR



· Class

· Label

3 (F1) Flammable liquids.

3

· IMDG, IATA



· Class

· Label

3 Flammable liquids.

3

· **14.4 Packing group**

· DOT

· ADR, IMDG, IATA

Not Regulated

III

· **14.5 Environmental hazards:**

· Marine pollutant:

No

· **14.6 Special precautions for user**

· Danger code (Kemler):

· EMS Number:

Warning: Flammable liquids.

30

F-E, S-E

· **14.7 Transport in bulk according to Annex II
of Marpol and the IBC Code**

Not applicable.

· Transport/Additional information:

· ADR



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.

(Cont'd. on page 11)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 10)

· IATA



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

SECTION 15: Regulatory information

- **15.1 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.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

Present in trace quantities.

91-20-3	naphthalene
---------	-------------

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

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

91-20-3	naphthalene	2B
---------	-------------	----

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

(Cont'd. on page 12)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 11)

· **Other regulations, limitations and prohibitive regulations**

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

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

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. 2: Acute toxicity – Category 2

Acute Tox. 1: Acute toxicity – Category 1

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 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**

(Cont'd. on page 13)

Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 25.07.2016

Revision: 25.07.2016

Trade name: Rislone® Octane Booster

(Cont'd. from page 12)

Website, European Chemicals Agency (echa.europa.eu)Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do)Website, Chemical Abstracts Registry, American Chemical Society (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