

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 2)

- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment in case of complaints.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
A person vomiting while lying on their back should be turned onto their side.
- **Most important symptoms and effects, both acute and delayed:**
Coughing
Dizziness
Breathing difficulty
Gastric or intestinal disorders
May be harmful in contact with skin.
May be harmful if inhaled.
Causes mild skin irritation.
- **Danger:** Danger of impaired breathing.
- **Indication of any immediate medical attention and special treatment needed:**
If swallowed, gastric irrigation with added, activated carbon.
If swallowed or in case of vomiting, danger of entering the lungs.
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary edema.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Alcohol resistant foam
Gaseous extinguishing agents
Carbon dioxide
Fire-extinguishing powder
Water fog / haze
- **For safety reasons unsuitable extinguishing agents:**
Water stream.
Water spray
- **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.
Wear fully protective suit.
- **Additional information:**

(Cont'd. on page 4)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 3)

Cool endangered containers with water fog.
Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

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

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

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions**

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

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

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

- **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:**

Keep out of reach of children.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid breathing mist, vapors, or spray.

Avoid contact with the eyes and skin.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

Keep ignition sources away - Do not smoke.

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

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

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

Store in cool, dry conditions in well sealed receptacles.

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

Store away from foodstuffs.

Store away from oxidizing agents.

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

8 Exposure controls/personal protection

(Cont'd. on page 5)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 4)

· Control parameters

· Components with limit values that require monitoring at the workplace:

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

EL (Canada)	Long-term value: 200 mg/m ³ Skin
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95-63-6 1,2,4-trimethylbenzene

REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm
TLV (USA)	Long-term value: 123 mg/m ³ , 25 ppm

108-67-8 mesitylene

REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm
TLV (USA)	Long-term value: 123 mg/m ³ , 25 ppm

526-73-8 1,2,3-trimethylbenzene

REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm
TLV (USA)	Long-term value: 123 mg/m ³ , 25 ppm

98-82-8 Cumene

PEL (USA)	Long-term value: 245 mg/m ³ , 50 ppm Skin
REL (USA)	Long-term value: 245 mg/m ³ , 50 ppm Skin
TLV (USA)	Long-term value: (246) NIC-5 mg/m ³ , (50) NIC-1 ppm NIC-A3
EL (Canada)	Short-term value: 75 ppm Long-term value: 25 ppm IARC 2B
EV (Canada)	Long-term value: 245 mg/m ³ , 50 ppm Skin
LMPE (Mexico)	Long-term value: 50 ppm

· Exposure controls

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· **Engineering controls:** No relevant information available.

· Breathing equipment:

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.

· Protection of hands:



Protective gloves

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

(Cont'd. on page 6)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 5)

· **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
No relevant information available.
- **Risk management measures** No relevant information available.

9 Physical and chemical properties

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

· **Appearance:**

· Form:	Liquid
· Color:	Light yellow
· Odor:	Petroleum-like
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** >35 °C (>95 °F)

· **Flash point:** 40.6 °C (105.1 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

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

· **Explosion limits**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Oxidizing properties:** Non-oxidizing.

· **Vapor pressure:** Not determined.

· **Density:**

· **Relative density:** 0.77

· **Vapor 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 at 40 °C (104 °F):** 1.4 mm²/s

(Cont'd. on page 7)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 6)

· **Other information** No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Flammable liquid and vapor.
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.
Reacts with oxidizing agents.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **IARC (International Agency for Research on Cancer):**
Present in trace quantities: all except 98-82-8.

98-82-8	Cumene	2B
71-43-2	Benzene	1
75-07-0	acetaldehyde	2B
75-56-9	propylene oxide	2B
91-20-3	Naphthalene	2B
100-41-4	Ethylbenzene	2B
100-42-5	styrene	2B

- **NTP (National Toxicology Program):**
Present in trace quantities: all except 98-82-8.

98-82-8	Cumene	R
71-43-2	Benzene	K
75-07-0	acetaldehyde	R
75-56-9	propylene oxide	R
91-20-3	Naphthalene	R
100-42-5	styrene	R

(Cont'd. on page 8)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 7)

110-00-9 | furan

R

- **OSHA-Ca (Occupational Safety & Health Administration):**
Present in trace quantities.

71-43-2 | Benzene

- **Probable route(s) of exposure:**
Ingestion.
Inhalation.
Eye contact.
Skin contact.
- **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:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity**

128-39-2 2,6-di-tert-butylphenol

LC50 | 0.89 mg/l (Oncorhynchus mykiss)

- **Persistence and degradability:** The product is partially biodegradable. Significant residuals remain.
- **Bioaccumulative potential:** Does not accumulate in organisms
- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information**
- **General notes:** Avoid transfer into the environment.
- **Other adverse effects:** No 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 packagings**

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

14 Transport information

(Cont'd. on page 9)




Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 8)

<ul style="list-style-type: none"> · UN-Number · DOT · ADR/RID/ADN, IMDG, IATA 	<p>NA1993 UN1268</p>
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR/RID/ADN, IMDG · IATA 	<p>Combustible liquid, n.o.s. (petroleum distillates) PETROLEUM PRODUCTS, N.O.S. Petroleum products, n.o.s.</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	
 <ul style="list-style-type: none"> · Class · Label 	<p>3 3</p>
<ul style="list-style-type: none"> · ADR/RID/ADN 	
 <ul style="list-style-type: none"> · Class · Label 	<p>3 (F1) 3</p>
<ul style="list-style-type: none"> · IMDG, IATA 	
 <ul style="list-style-type: none"> · Class · Label 	<p>3 3</p>
<ul style="list-style-type: none"> · Packing group · DOT, ADR/RID/ADN, IMDG, IATA 	<p>III</p>
<ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: 	<p>No</p>
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	<p>Warning: Flammable liquids 30 F-E,S-E</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: · DOT 	<p>Classified as combustible under US DOT regulations. Labeling is only required for single packages 119 US gal / 450 L.</p>

(Cont'd. on page 10)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 9)

· **ADR/RID/ADN**



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

· **IMDG**



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

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each / 10 L net.

15 Regulatory information

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

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

95-63-6	1,2,4-trimethylbenzene
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· **TSCA (Toxic Substances Control Act)**

All ingredients are listed or exempt.

· **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Present in trace quantities.

75-07-0	acetaldehyde	10000
75-56-9	propylene oxide	10000
110-00-9	furan	5000

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Present in trace quantities: all except 98-82-8.

98-82-8	Cumene
71-43-2	Benzene
75-07-0	acetaldehyde
75-56-9	propylene oxide

(Cont'd. on page 11)

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 10)

91-20-3	Naphthalene
100-41-4	Ethylbenzene
100-42-5	styrene
110-00-9	furan

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

Present in trace quantities.

71-43-2	Benzene
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· **Chemicals known to cause developmental toxicity:**

Present in trace quantities.

71-43-2	Benzene
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108-88-3	Toluene
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· **EPA (Environmental Protection Agency):**

95-63-6	1,2,4-trimethylbenzene	II
108-67-8	mesitylene	II
526-73-8	1,2,3-trimethylbenzene	II
98-82-8	Cumene	D, CBD

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

Present in trace quantities: all except 98-82-8.

98-82-8	Cumene	2B
71-43-2	Benzene	1
75-07-0	acetaldehyde	2B
75-56-9	propylene oxide	2B
91-20-3	Naphthalene	2B
100-41-4	Ethylbenzene	2B
100-42-5	styrene	2B
110-00-9	furan	2B

· **Canadian Domestic Substances List (DSL):**

All ingredients listed on DSL or NDSL.

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.

· **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

OSHA: Occupational Safety & Health Administration

Flam. Liq. 3: Flammable liquids – Category 3

(Cont'd. on page 12)

Safety Data Sheet

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Revision: 05.02.2021

Trade name: Rislone® Gas Fuel System Treatment – Right Side

(Cont'd. of page 11)

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/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: 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