

Safety Data Sheet

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

Printing date 12/19/2012

Revision: 12/19/2012

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

- **1.1 Product identifier**
- **Trade name:** Rislone® Octane Booster
- **Article number:** 4747
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** 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



2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R23/24: Toxic by inhalation and in contact with skin.



Xn; Harmful

R40-65-22: Limited evidence of a carcinogenic effect. Harmful: may cause lung damage if swallowed.
Harmful if swallowed.

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Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R10: Flammable.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard statements**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H304 May be fatal if swallowed and enters airways.

· **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/sparks/open flames/hot surfaces. - No smoking.

P281 Use personal protective equipment as required.

P233 Keep container tightly closed. P264

Wash thoroughly after handling. P261

Avoid breathing mist/vapours/spray.

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

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

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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P330 Rinse mouth.
 P331 Do NOT induce vomiting.
 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
 P403+P235 Store in a well-ventilated place. Keep cool.

· **Hazard description:**

· **WHMIS-symbols:**

B3 - Combustible liquid
 D1A - Very toxic material causing immediate and serious toxic effects
 D2B - Toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese
64742-94-5	Solvent naphtha (petroleum), heavy arom.
91-20-3	naphthalene

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 8052-41-3	Stoddard solvent	> 80%
EINECS: 232-489-3	Xn R65	
Index number: 649-345-00-4	Carc. Cat. 2, Muta. Cat. 2	
	Flam. Liq. 3, H226 Asp. Tox. 1, H304	

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CAS: 64742-94-5 EINECS: 265-198-5 Index number: 649-424-00-3	Solvent naphtha (petroleum), heavy arom.  Xn R65  Asp. Tox. 1, H304	< 10%
CAS: 95-63-6 EINECS: 202-436-9 Index number: 601-043-00-3	1,2,4-trimethylbenzene  Xn R20;  Xi R36/37/38;  N R51/53 R10  Flam. Liq. 3, H226  Aquatic Chronic 2, H411  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 10%
CAS: 12108-13-3 EINECS: 235-166-5	tricarbonyl(methylcyclopentadienyl)manganese  T+ R26/27;  T R25;  Xn R40;  N R50 Carc. Cat. 3  Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 1, H330  Carc. 2, H351  Aquatic Acute 1, H400	1-3%
CAS: 91-20-3 EINECS: 202-049-5 Index number: 601-052-00-2	naphthalene  Xn R22-40;  N R50/53 Carc. Cat. 3  Carc. 2, H351  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302	< 1,0%
· Additional information: For the wording of the listed risk phrases refer to section 16.		

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air or oxygen; call for doctor.

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

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn, if possible.

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

· After swallowing:

Rinse out mouth and then drink plenty of water.

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- Do not induce vomiting; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed**
 - Coughing
 - Dizziness
 - Breathing difficulty
 - Headache
 - Gastric or intestinal disorders
 - Disorientation
 - **Hazards**
 - Danger of pulmonary oedema.
 - Danger of impaired breathing.
 - Danger of cerebral oedema.
 - Danger of convulsion.
 - Condition may deteriorate with alcohol consumption.
 - **4.3 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.
 - Monitor circulation, possible shock treatment.
 - Medical supervision for at least 48 hours.
 - If necessary oxygen respiration treatment.
 - Later observation for pneumonia and pulmonary oedema.
 - Treat skin and mucous membrane with antihistamine and corticoid preparations.
 - Do not administer preparations of the adrenalin-ephedrine-group.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Alcohol resistant foam
 - Fire-extinguishing powder
 - Carbon dioxide
 - Gaseous extinguishing agents
 - Water haze or fog
- **For safety reasons unsuitable extinguishing agents:**
 - Water spray
 - Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water fog or haze.

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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.

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions:

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

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

· 6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

· 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.

7 Handling and storage

· 7.1 Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of aerosols.

Keep away from heat and direct sunlight.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

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 oxidizing agents.

Do not store together with acids.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

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

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

8052-41-3 Stoddard solvent

PEL (USA)	2900 mg/m ³ , 500 ppm
REL (USA)	Short-term value: C 1800* mg/m ³ Long-term value: 350 mg/m ³ *15-min
TLV (USA)	525 mg/m ³ , 100 ppm
EL (Canada)	Short-term value: 580 mg/m ³ Long-term value: 290 mg/m ³
EV (Canada)	525 mg/m ³

12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

REL (USA)	0,2 mg/m ³ Skin
TLV (USA)	0,2 mg/m ³ Skin
EL (Canada)	0,2 mg/m ³ Skin
EV (Canada)	0,2 mg/m ³ as manganese; Skin

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **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.
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.

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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. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Contact lenses should not be worn.



Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

No further relevant information available.

Risk management measures

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

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

pH-value: Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	327 °F / 164 °C

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· Flash point:	115 °F / 46 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	446 °F / 230 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	1.1 Vol % 6 Vol %
· Vapour pressure:	Not determined.
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	0.78 g/cm ³ Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents:	Not determined.
Solids content:	Not determined.
· 9.2 Other information	No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Flammable.
Develops readily flammable gases/fumes.
Used empty containers may contain product gases which form explosive mixtures with air.
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.
Reacts with peroxides and other radical forming substances.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

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10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Hydrocarbons

Carbon monoxide and carbon dioxide

Poisonous gases/vapours

11 Toxicological information

11.1 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 LC50/4 h 0,076 mg/l (rat)

Primary irritant effect:

- on the skin:** Irritant to skin and mucous membranes.

- on the eye:** Irritating effect.

- Sensitization:** No sensitizing effects known.

Subacute to chronic toxicity:

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Irritant

Vapours have narcotic effect.

- Acute effects (acute toxicity, irritation and corrosivity)** Danger through skin adsorption.

- Repeated dose toxicity** May cause damage to organs through prolonged or repeated exposure .

12 Ecological information

12.1 Toxicity

- Aquatic toxicity:** The product contains materials that are harmful to the environment.

- 12.2 Persistence and degradability** The product is partly biodegradable. Significant residuals remain.

- 12.3 Bioaccumulative potential** May be accumulated in organism

- 12.4 Mobility in soil** No further relevant information available.

Ecotoxicological effects:

- Remark:** Harmful to fish

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- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Contact waste processors for recycling information.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **Uncleaned packaging:**

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

14 Transport information

- **14.1 UN-Number**

- **DOT**

N/A

Reclassified as combustible under US DOT regulation 49CFR173.150(f) For shipments by ground only. No labeling required for single packages under 119 US gal / 450 L. Shipments by air or vessel use IATA or IMDG classifications as required.

- **ADR, IMDG, IATA**

UN1993

- **14.2 UN proper shipping name**

- **DOT**

Reclassified as combustible under US DOT regulation 49CFR173.150(f) For shipments by ground only. No labeling required for single packages under 119 US gal / 450 L. Shipments by air or vessel use IATA or IMDG classifications as required.

- **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES)

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· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES)
· 14.3 Transport hazard class(es)	
· DOT	
· Class	N/A
· ADR	
	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· DOT	N/A
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES), 3, III

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

12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese
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95-63-6	1,2,4-trimethylbenzene
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91-20-3	naphthalene
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- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

91-20-3	naphthalene
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- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

91-20-3	naphthalene	CBD
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- **IARC (International Agency for Research on Cancer)**

91-20-3	naphthalene	2B
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- **TLV (Threshold Limit Value established by ACGIH)**

91-20-3	naphthalene	A4
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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Canada**

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

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

95-63-6	1,2,4-trimethylbenzene
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· **Canadian Ingredient Disclosure list (limit 1%)**

8052-41-3 Stoddard solvent

12108-13-3 tricarbonyl(methylcyclopentadienyl)manganese

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

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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.

R20 Harmful by inhalation.

R22 Harmful if swallowed.

R25 Toxic if swallowed.

R26/27 Very toxic by inhalation and in contact with skin.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Sources

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