

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

## 1 Identification

- **Product identifier**
- **Trade name:** X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Coating
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
xGen, LLC  
118 Rochester Drive  
Louisville, KY 40214  
Phone: (502) 364-6050
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H332 Harmful if inhaled.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT SE 2 H371 May cause damage to the central nervous system and optic nerve.  
STOT RE 2 H373 May cause damage to the bladder through prolonged or repeated exposure. Route of exposure: Oral.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS02 GHS07 GHS08

- **Signal word:** Danger
- **Hazard statements:**  
H225 Highly flammable liquid and vapor.  
H302+H332 Harmful if swallowed or if inhaled.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H371 May cause damage to the central nervous system and optic nerve.  
H373 May cause damage to the bladder through prolonged or repeated exposure. Route of exposure: Oral.

(Cont'd. on page 2)

# Safety Data Sheet

## Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 1)










**Precautionary statements:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO <sub>2</sub> , powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**
**Components:**

1185-55-3	trimethoxy(methyl)silane  Flam. Liq. 2, H225  Skin Sens. 1, H317	25-50%
2996-92-1	trimethoxyphenylsilane  Flam. Liq. 3, H226  STOT RE 2, H373  Acute Tox. 4, H302	25-50%
67-56-1	Methanol  Flam. Liq. 2, H225  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT SE 1, H370 Eye Irrit. 2B, H320	<5%
1112-39-6	dimethoxydimethylsilane  Flam. Liq. 2, H225	<2.5%

(Cont'd. on page 3)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 2)

	⚠ Repr. 2, H361	
17865-54-2	cyclohexyl trimethoxysilane	<2.5%
	⚠ Skin Corr. 1B, H314	
67-63-0	Propan-2-ol	<1%
	⚠ Flam. Liq. 2, H225	
	⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	

· **Additional information:**

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

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

## 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

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

· **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **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.

· **Most important symptoms and effects, both acute and delayed:**

Headache

Breathing difficulty

Dizziness

Coughing, dizziness, if inhaled.

Coughing

Allergic reactions

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Acidosis

Unconsciousness

· **Danger:**

Danger of impaired breathing.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Vapours may cause drowsiness and dizziness.

Harmful if swallowed or if inhaled.

Suspected of damaging fertility or the unborn child.

May cause damage to the central nervous system and optic nerve.

· **Indication of any immediate medical attention and special treatment needed:**

Contains ethanediol. Consult literature for specific antidotes.

Contains trimethoxy(methyl)silane. May produce an allergic reaction.

(Cont'd. on page 4)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 3)

Treat skin and mucous membrane with antihistamine and corticoid preparations.  
If necessary oxygen respiration treatment.  
Medical supervision for at least 48 hours.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Can form explosive gas-air mixtures.
- **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.  
Use large quantities of foam as it is partially destroyed by the product.  
Cool endangered receptacles with water spray.

## 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.  
Particular danger of slipping on leaked/spilled product.  
Keep away from ignition sources.  
Protect from heat.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**  
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Send for recovery or disposal in suitable receptacles.  
Used rags or other cleaning materials should be soaked with water and placed in a sealed container.
- **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:**  
Handle with care.

(Cont'd. on page 5)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 4)

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.

Avoid splashes or spray in enclosed areas.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

· **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

· **Control parameters**

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

**67-56-1 Methanol**

PEL (USA) Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

REL (USA) Short-term value: 325 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 260 mg/m<sup>3</sup>, 200 ppm  
Skin

TLV (USA) Short-term value: 328 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 262 mg/m<sup>3</sup>, 200 ppm  
Skin; BEI

EL (Canada) Short-term value: 250 ppm  
Long-term value: 200 ppm  
Skin

EV (Canada) Short-term value: 325 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 260 mg/m<sup>3</sup>, 200 ppm  
Skin

LMPE (Mexico) Short-term value: 250 ppm  
Long-term value: 200 ppm  
PIEL, IBE

**67-63-0 Propan-2-ol**

PEL (USA) Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

REL (USA) Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

TLV (USA) Short-term value: 984 mg/m<sup>3</sup>, 400 ppm  
Long-term value: 492 mg/m<sup>3</sup>, 200 ppm

(Cont'd. on page 6)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 5)

EL (Canada)	BEI Short-term value: 400 ppm Long-term value: 200 ppm
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm
LMPE (Mexico)	Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE

· **Ingredients with biological limit values:**

**67-56-1 Methanol**

BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
-----------	---

**67-63-0 Propan-2-ol**

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
-----------	---

· **Exposure controls**

· **General protective and hygienic measures:**

- The usual precautionary measures for handling chemicals should be followed.
- 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.
- Pregnant women should strictly avoid inhalation or skin contact.

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

· **Breathing equipment:**

- Use suitable respiratory protective device when aerosol or mist is formed.
- Use suitable respiratory protective device in case of insufficient ventilation.

· **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:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

(Cont'd. on page 7)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A

(Cont'd. of page 6)

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · Appearance:

Form: Liquid  
Color: According to product specification

· Odor: Not determined.

· Odor threshold: Not determined.

· pH-value: Not determined.

· Melting point/Melting range: Not determined.

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

· Flash point: >8 °C (>46.4 °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: Not determined.

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: Not determined.

· Other information: No relevant information available.

## 10 Stability and reactivity

· **Reactivity:** No relevant information available.

· **Chemical stability:**

· **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.

· **Possibility of hazardous reactions**

Highly flammable liquid and vapor.

Used empty containers may contain product gases which form explosive mixtures with air.

(Cont'd. on page 8)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 7)

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong oxidizing agents.

- **Conditions to avoid**

Moisture.  
Excessive heat.

- **Incompatible materials** Oxidizers

- **Hazardous decomposition products**

Carbon monoxide and carbon dioxide  
Hydrogen  
Small quantities of formaldehyde may be formed.

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

May be harmful in contact with skin.  
Harmful if swallowed or if inhaled.

- **LD/LC50 values that are relevant for classification:**

**2996-92-1 trimethoxyphenylsilane**

Oral	LD50	1049 mg/kg (rat)
------	------	------------------

**18406-41-2 3,3,6,6-tetramethoxy-2,7-dioxa-3,6-disilaoctane**

Inhalative	LC50/4h	2 ppm (rat) (4h)
------------	---------	------------------

- **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:** Sensitization possible through skin contact.

- **Carcinogenic categories**

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

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

- **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:** Suspected of damaging fertility or the unborn child.

- **STOT-single exposure:** May cause damage to the central nervous system and optic nerve.

- **STOT-repeated exposure:**

May cause damage to the bladder through prolonged or repeated exposure. Route of exposure: Oral.

(Cont'd. on page 9)



# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

(Cont'd. of page 8)

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** Biodegradable.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
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.  
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

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>   | UN1993  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR, IMDG</b></li> <li>· <b>IATA</b></li> </ul> | Flammable liquids, n.o.s. (trimethoxy(methyl)silane, cyclohexyl trimethoxysilane)<br>FLAMMABLE LIQUID, N.O.S. (trimethoxy(methyl)silane, cyclohexyl trimethoxysilane)<br>Flammable liquid, n.o.s. (trimethoxy(methyl)silane, cyclohexyl trimethoxysilane) |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> </ul>   |   |

(Cont'd. on page 10)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A

(Cont'd. of page 9)

## · DOT



· Class 3  
· Label 3

## · ADR



· Class 3 (F1)  
· Label 3

## · IMDG, IATA



· Class 3  
· Label 3

## · Packing group

· DOT, ADR, IMDG, IATA II

## · Environmental hazards

· Marine pollutant: No

## · Special precautions for user

Warning: Flammable liquids

## · Danger code (Kemler):

33

## · EMS Number:

F-E,S-E

· Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code

Not applicable.

## · Transport/Additional information:

## · DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

## · ADR



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

## · IMDG

(Cont'd. on page 11)

# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 10)



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 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):**

67-56-1 | Methanol

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

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

67-56-1 | Methanol

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

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

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.

(Cont'd. on page 12)

# Safety Data Sheet

## Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: September 05, 2018

Revision: September 05, 2018

**Trade name: X-PROTECT PERFORMANCE TOPCOAT MATTE FINISH Part A**

(Cont'd. of page 11)

· **Date of preparation / last revision** September 05, 2018 / -

· **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  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 BEI: Biological Exposure Limit  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **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: 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)