

# Safety Data Sheet

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

Printing date: August 22, 2018

Revision: August 22, 2018

## 1 Identification

- **Product identifier**
- **Trade name:** Galvanized Metal
- **Other means of identification:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:**  
Manufactured article.  
Industrial uses.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
C.L. Ward & Family Inc.  
1100 Ashwood Drive, Suite 1102  
Canonsburg, PA 15317  
Phone: 888-973-7600
- **Emergency telephone number:**  
ChemTel Inc.  
(800) 255-3924 (North America)  
(801) 1 (813)248-0585 (International)



## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements**  
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

### · Components:

7439-89-6	Iron	>80%
7664-38-2	Phosphoric acid ☠ Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	<2%
1333-82-0	Chromium (VI) trioxide ☠ Ox. Sol. 1, H271 ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 ☠ Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1A, H350; Repr. 2, H361; STOT RE 1, H372 ☠ Skin Corr. 1A, H314	<2%

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	⚠ Skin Sens. 1, H317	
7439-96-5	Manganese	<1%
7440-50-8	Copper	<1%
7440-44-0	Carbon	<1%
7440-02-0	Nickel	<1%
7440-47-3	Chromium	<1%
7429-90-5	Aluminum	<1%
7440-62-2	Vanadium	<1%
7440-32-6	Titanium	<1%
7439-98-7	Molybdenum	<1%
7440-03-1	Niobium	<1%
7704-34-9	Sulfur	<1%
	⚠ Skin Irrit. 2, H315	
7723-14-0	Phosphorus	<1%
	⚠ Flam. Sol. 1, H228	
7440-31-5	Tin	<1%
7727-37-9	Nitrogen	<1%
7440-21-3	Silicon	<1%

**Additional information:**

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

There is no exposure to hazardous ingredients during normal use.

## 4 First-aid measures

**Description of first aid measures**

**General information:** Adverse health effects are not reasonably expected from normal use of product.

**After inhalation:**

Move to fresh air if breathing is difficult. If breathing has stopped, perform artificial respiration and obtain medical assistance at once.

**After skin contact:**

Wash with soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

In case of minor burns, flush with cool water.

Seek medical treatment if any skin damage has occurred.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Unlikely route of exposure.

Seek medical treatment in case of complaints.

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

Short-term (acute) overexposure to metal fumes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema).

Long-term (chronic) overexposure to metal fumes can lead to siderosis (iron deposits in lung), central nervous system effects, bronchitis and other pulmonary effects. Refer to Section 11 for more information.

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- **Danger:**
  - Suspected of damaging fertility or the unborn child.
  - May cause cancer.
  - May cause genetic defects.
  - Causes damage to organs through prolonged or repeated exposure.
- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - As shipped, the product will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.
- **For safety reasons unsuitable extinguishing agents:** For metal fires: Use specific agents only.
- **Special hazards arising from the substance or mixture** Heated product may release toxic fumes.
- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information:**
  - In case of fire involving large quantities, evacuate area and fight fire from the upwind side.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - If airborne dust and/or fume is present, use adequate engineering controls and, if needed, personal protection to prevent overexposure. Refer to recommendations in Section 8.
- **Environmental precautions** Avoid release to the environment.
- **Methods and material for containment and cleaning up**
  - Pick up mechanically.
  - 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:** Handle with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
  - Storage area should be dry and well-ventilated.
  - Avoid storage near extreme heat.
- **Information about storage in one common storage facility:** No special requirements.

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· **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:

##### 7439-89-6 Iron

EV (Canada)	Long-term value: 1* 5** mg/m <sup>3</sup> as iron;*salts, water-soluble;**welding fume
LMPE (Mexico)	Long-term value: 1 mg/m <sup>3</sup>

##### 7664-38-2 Phosphoric acid

PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>
REL (USA)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
TLV (USA)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
EL (Canada)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
EV (Canada)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
LMPE (Mexico)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>

##### 1333-82-0 Chromium (VI) trioxide

PEL (USA)	Long-term value: 0.005* mg/m <sup>3</sup> Ceiling limit value: 0.1** mg/m <sup>3</sup> *as Cr(VI) **as CrO <sub>3</sub> ; see 29 CFR 1910.1026
REL (USA)	Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Short-term value: 0.0005 mg/m <sup>3</sup> Long-term value: 0.0002 mg/m <sup>3</sup> as Cr; inhalable, Skin; BEI, DSEN, RSEN
EL (Canada)	Long-term value: 0.025 mg/m <sup>3</sup> Ceiling limit value: 0.1 mg/m <sup>3</sup> as Cr; ACGIH A1, IARC 1
LMPE (Mexico)	Long-term value: 0.05 mg/m <sup>3</sup> A1, IBE; como Cr

##### 7439-96-5 Manganese

PEL (USA)	Ceiling limit value: 5 mg/m <sup>3</sup> as Mn
REL (USA)	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup> fume, as Mn
TLV (USA)	Long-term value: 0.02* 0.1** mg/m <sup>3</sup> as Mn; *respirable **inhalable fraction

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EL (Canada)	Long-term value: 0.2; 0.02* mg/m <sup>3</sup> as Mn; R, *respirable
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> as manganese
LMPE (Mexico)	Long-term value: 0.2 mg/m <sup>3</sup> como Mn

**7440-50-8 Copper**

PEL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume, as Cu
EV (Canada)	Long-term value: 0.2* 1** mg/m <sup>3</sup> as copper, *fume; **dust and mists
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m <sup>3</sup> *humo (como Cu); **polvo y niebla (como Cu)

**7440-02-0 Nickel**

PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>
REL (USA)	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV (USA)	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction
EL (Canada)	Long-term value: 0.05 mg/m <sup>3</sup> ACGIH A1, IARC 2B
EV (Canada)	Long-term value: 1 mg/m <sup>3</sup> Inhalable fraction
LMPE (Mexico)	Long-term value: 1.5* mg/m <sup>3</sup> *elemental:A5, fracción inhalable

**7440-47-3 Chromium**

PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>
REL (USA)	Long-term value: 0.5* mg/m <sup>3</sup> *metal+inorg.compds.as Cr; See Pocket Guide App. C
TLV (USA)	Long-term value: 0.003* 0.5** mg/m <sup>3</sup> inh. fraction, *as Cr(III), **metal
EL (Canada)	Long-term value: 0.5 mg/m <sup>3</sup> as metal
EV (Canada)	Long-term value: 0.05 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 0.5 mg/m <sup>3</sup> A4

**7429-90-5 Aluminum**

PEL (USA)	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
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REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction
EL (Canada)	Long-term value: 1.0 mg/m <sup>3</sup> respirable, as Al
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup> aluminium-containing (as aluminium)
LMPE (Mexico)	Long-term value: 1* mg/m <sup>3</sup> A4, *fracción respirable

### 7439-98-7 Molybdenum

REL (USA)	Long-term value: 15* mg/m <sup>3</sup> *Total dust, as Mo
TLV (USA)	Long-term value: 10* 3** mg/m <sup>3</sup> as Mo; *inhalable fraction ** respirable fraction
EL (Canada)	Long-term value: 3* 10** mg/m <sup>3</sup> as Mo; *respirable **inhalable
EV (Canada)	Long-term value: 10* 3** 0.5*** mg/m <sup>3</sup> metal,insol.compd.:*inh,**resp;sol.compd.:***resp
LMPE (Mexico)	Long-term value: 10* 3** mg/m <sup>3</sup> *fracción inhalable **respirable; como Mo

### 7723-14-0 Phosphorus

REL (USA)	Long-term value: 0.1 mg/m <sup>3</sup>
LMPE (Mexico)	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup>

### 7440-31-5 Tin

REL (USA)	Long-term value: 2 mg/m <sup>3</sup> metal
REL (USA)	Long-term value: 2 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 2 mg/m <sup>3</sup> metal
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> metal
EV (Canada)	Long-term value: 2* 0.1** mg/m <sup>3</sup> *metal, oxide, inorg. compds.;**org. compds.: Skin
LMPE (Mexico)	Long-term value: 2* mg/m <sup>3</sup> *metal

### 7727-37-9 Nitrogen

TLV (USA)	withdrawn TLV, see App. F; simple asphyxiant
EL (Canada)	Simple asphyxiant
LMPE (Mexico)	Asfixiante simple

### · Ingredients with biological limit values:

#### 1333-82-0 Chromium (VI) trioxide

BEI (USA)	25 µg/L
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Medium: urine  
Time: end of shift at end of workweek  
Parameter: Total chromium (fume)

10 µg/L  
Medium: urine  
Time: increase during shift  
Parameter: Total chromium (fume)

- **Exposure controls**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Do not breathe dust.
  - Do not breathe fume.
- **Engineering controls:** Provide adequate ventilation.
- **Breathing equipment:**
  - Use respiratory protection when grinding or cutting material.
  - Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- **Protection of hands:**
  - Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
- **Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.
- **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:** Solid
  - Color:** According to product specification
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** Not determined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits**

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<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>· Oxidizing properties:</b>	Non-oxidizing.
<b>· Vapor pressure:</b>	Not applicable.
<b>· Density:</b>	
<b>Relative density:</b>	Not determined.
<b>Vapor density:</b>	Not applicable.
<b>Evaporation rate:</b>	Not applicable.
<b>· Solubility in / Miscibility with Water:</b>	Insoluble.
<b>· Partition coefficient (n-octanol/water):</b>	Not determined.
<b>· Viscosity</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>· Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Avoid extreme heat.
- **Possibility of hazardous reactions** Reacts with strong acids and alkali.
- **Conditions to avoid**  
Moisture.  
Excessive heat.
- **Incompatible materials**  
Strong acids  
Alkalis
- **Hazardous decomposition products** Toxic metal compounds

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Harmful if inhaled.
- **LD/LC50 values that are relevant for classification:**

### 1333-82-0 Chromium (VI) trioxide

Oral	LD50	80 mg/kg (rat)
Dermal	LD50	57 mg/kg (rabbit)
Inhalative	LC50/4h	217 mg/m <sup>3</sup> (rat)

- **Primary irritant effect:**

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- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Causes eye irritation.
- **Sensitization:** May cause sensitisation by inhalation and skin contact.
- **Subacute to chronic toxicity:**

Chromates may cause ulceration, perforation of the nasal septum, and severe irritation of the bronchial tubes and lungs. Liver damage and allergic reactions, including skin rash, have been reported. Asthma has been reported in some sensitized individuals. Skin contact may result in irritation, ulceration, sensitization, and contact dermatitis. Chromates contain the hexavalent form of chromium. Hexavalent chromium and its compounds are on the IARC (International Agency for Research on Cancer) and NTP (National Toxicology Program) lists as posing a cancer risk to humans.

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

7440-02-0	Nickel	2B
1333-82-0	Chromium (VI) trioxide	1

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

1333-82-0	Chromium (VI) trioxide	K
7440-02-0	Nickel	R

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

None of the ingredients are listed.

- **Probable route(s) of exposure:** Skin contact.
- **Germ cell mutagenicity:** May cause genetic defects.
- **Carcinogenicity:** May cause cancer.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:** Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability**  
Inorganic product, is not eliminable from water by means of biological cleaning processes.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**

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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

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>UN proper shipping name</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>Transport hazard class(es)</b>  |                 |
| · DOT, ADR, IMDG, IATA   |                 |
| · Class  | Not regulated.  |
| · <b>Packing group</b>   |                 |
| · DOT, ADR, IMDG, IATA   | Not regulated.  |
| · <b>Environmental hazards</b>   |                 |
| · Marine pollutant:  | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

## 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):**

7723-14-0 | Phosphorus

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

1333-82-0 | Chromium (VI) trioxide

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

All ingredients are listed.

· **Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

1333-82-0 Chromium (VI) trioxide

7440-02-0 Nickel

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

1333-82-0 Chromium (VI) trioxide

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

1333-82-0 Chromium (VI) trioxide

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

1333-82-0 Chromium (VI) trioxide

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

1333-82-0 Chromium (VI) trioxide A(inh), D(oral), K/L(inh), CBD(oral)

7439-96-5 Manganese D

7440-50-8 Copper D

7440-47-3 Chromium D

7723-14-0 Phosphorus D

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

1333-82-0 Chromium (VI) trioxide 1

7440-02-0 Nickel 2B

· **Canadian Domestic Substances List (DSL) (Substances not listed.):**

All 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.

· **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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety &amp; Health Administration

Flam. Sol. 1: Flammable solids – Category 1

Ox. Sol. 1: Oxidizing solids – Category 1

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 1B: Germ cell mutagenicity – Category 1B  
Carc. 1A: Carcinogenicity – Category 1A  
Repr. 2: Reproductive toxicity – Category 2  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**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)