

# Safety Data Sheet

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

Printing date August 6, 2013




Revision: August 6, 2013

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

- **1.1 Product identifier**
- **Trade name: CS PELLETS**
- **Article number: 1698**
- **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** Crowd Control Device
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Safariland, LLC  
13386 International Parkway  
Jacksonville, FL 32218  
Customer Care (800) 347-1200
- **Further information obtainable from:** Customer Care Department
- **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**  
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
- |   |                            |
|---|----------------------------|
|  | GHS06 skull and crossbones |
| Acute Tox. 3  | H301 Toxic if swallowed.   |
- |   |   |
|---|---|
|  | GHS07   |
| Skin Irrit. 2   | H315 Causes skin irritation.                            |
| Eye Irrit. 2  | H319 Causes serious eye irritation.                     |
| Aquatic Chronic 3   | H412 Harmful to aquatic life with long lasting effects. |
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- |   |   |
|---|---|
|  | T; Toxic  |
| R25:  | Toxic if swallowed.   |
| R52/53:   | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
- **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.

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

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

- **Hazard pictograms**



GHS06

- **Signal word** Danger

- **Hazard-determining components of labelling:**

[(2-chlorophenyl)methylene]malononitrile

potassium chlorate

Magnesium Carbonate

- **Hazard statements**

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

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P362 Take off contaminated clothing and wash before reuse.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Can become highly flammable in use.

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- **Hazard description:**
- **WHMIS-symbols:**  
D1A - Very toxic material causing immediate and serious toxic effects



- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **HMIS Long Term Health Hazard Substances**

None of the ingredients is listed.

- **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: 2698-41-1 EINECS: 220-278-9	[(2-chlorophenyl)methylene]malononitrile T R25 Acute Tox. 3, H301	25-50%
CAS: 3811-04-9 EINECS: 223-289-7 Index number: 017-004-00-3	potassium chlorate Xn R20/22;  O R9;  N R51/53 Ox. Sol. 1, H271 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H332	10-25%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular E R1-3 Unst. Expl., H200	10-25%
CAS: 7760-50-1	Magnesium Carbonate Xn R22;  Xi R36/37/38 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%

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CAS: 57-50-1

EINECS: 200-334-9

sucrose, pure

substance with a Community workplace exposure limit

10-25%

- **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.

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

#### · After inhalation:

Supply fresh air; consult doctor in case of complaints.

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:

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.

Do not induce vomiting; call for medical help immediately.

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

Breathing difficulty

Headache

Cramp

Nausea

Coughing

#### · Hazards

Danger of impaired breathing.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

No further relevant information available.

### · 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

Contains chlorates.

May produce a thyrotoxic effect.

Monitor circulation, possible shock treatment.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

## 5 Firefighting measures

### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **For safety reasons unsuitable extinguishing agents:** None.
- **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.  
Eliminate all ignition sources if safe to do so.  
Evacuate area and fight fire from from the upwind side.  
No further relevant information available.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Avoid formation of dust.  
Ensure adequate ventilation
- **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:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.  
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**  
Prevent formation of dust.  
Take note of emission threshold.  
Use only in well ventilated areas.  
No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.

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Keep respiratory protective device available.

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

- **Storage:**

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

Store in a cool location.

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

Protect from humidity and water.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

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

Store away from foodstuffs.

Do not store together with acids.

Store away from flammable substances.

Store away from oxidizing agents.

Protect from humidity and water.

- **Further information about storage conditions:**

Keep container tightly sealed.

This product is hygroscopic.

Protect from humidity and water.

Store in dry conditions.

- **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:**

**2698-41-1 [(2-chlorophenyl)methylene]malononitrile**

PEL (USA)	Long-term value: 0,4 mg/m <sup>3</sup> , 0,05 ppm
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REL (USA)	Short-term value: C 0,4 mg/m <sup>3</sup> , C 0,05 ppm
	Skin

TLV (USA)	Short-term value: C 0,39 mg/m <sup>3</sup> , C 0,05 ppm
	Skin

EL (Canada)	Short-term value: C 0,05 ppm
	Skin

EV (Canada)	Skin
-------------	------

**57-50-1 sucrose, pure**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup>
	*total dust **respirable fraction

REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup>
	*total dust **respirable fraction

TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
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EL (Canada)	Long-term value: 10 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust

- **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:

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.

#### • Respiratory protection:



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

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.

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.

- **For the permanent contact gloves made of the following materials are suitable:** Rubber gloves

#### • Eye protection:



Safety glasses

#### • Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

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- **Limitation and supervision of exposure into the environment**  
No further relevant information available.
- **Risk management measures**  
Organizational measures should be in place for all activities involving this product.  
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:	Solid
Colour:	Whitish
Odour:	Pungent
Odour threshold:	Not determined.

· pH-value: Not applicable.

#### · Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

· Flash point: Flash Point Range: Approx. 338 ° F / Approx. 170 °C.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Not determined.

#### · Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure: Not applicable.

Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.

#### · Solubility in / Miscibility with water:

Soluble.

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity:

Dynamic: Not applicable.

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<b>Kinematic:</b>	Not applicable.
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<b>· Solvent content:</b>	
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<b>Organic solvents:</b>	Not determined.
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<b>· 9.2 Other information</b>	No further relevant information available.
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## 10 Stability and reactivity

- **10.1 Reactivity**

- **10.2 Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

Can decompose slowly with localised heating above 150 °C.

No decomposition if used and stored according to specifications.

- **10.3 Possibility of hazardous reactions**

Toxic fumes may be released if heated above the decomposition point.

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

Contact with acids releases toxic gases.

Reacts with oxidizing agents.

Reacts with acids.

Corrodes aluminium.

Reacts with humid air.

Reacts with alkali (lyes).

- **10.4 Conditions to avoid**

Moisture.

Keep ignition sources away - Do not smoke.

Keep away from heat and direct sunlight.

Store away from oxidizing agents.

- **10.5 Incompatible materials:** No further relevant information available.

- **10.6 Hazardous decomposition products:**

Hydrogen chloride (HCl)

Chlorine

Strong tear gas

Halogenated hydrocarbons

Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

<b>· LD/LC50 values relevant for classification:</b>	
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<b>2698-41-1 [(2-chlorophenyl)methylene]malononitrile</b>		
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Oral	LD50	178 mg/kg (rat)
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<b>3811-04-9 potassium chlorate</b>		
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Oral	LD50	1870 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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
- **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 organic portion of the product is biodegradable.
- **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  
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
- **Additional ecological information:**
- **General notes:**  
This statement was deduced from the properties of the single components.  
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.  
Harmful to aquatic organisms  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **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**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· Recommended cleansing agents: Water, if necessary together with cleansing agents.

## 14 Transport information

· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN3448
· 14.2 UN proper shipping name · DOT · ADR, IMDG, IATA	Tear gas substance, solid, n.o.s. 3448 TEAR GAS SUBSTANCE, SOLID, N.O.S.
· 14.3 Transport hazard class(es) · DOT	
	
· Class · Label	6.1 Toxic substances. 6.1
· ADR	
	
· Class · Label	6.1 (T2) Toxic substances. 6.1
· IMDG, IATA	
	
· Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · DOT, ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups	Warning: Toxic substances. 60 F-A,S-A Chlorates
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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<b>· Transport/Additional information:</b>	
<b>· ADR</b>	
<b>· Limited quantities (LQ)</b>	0
<b>· Transport category</b>	2
<b>· Tunnel restriction code</b>	D/E
<b>· UN "Model Regulation":</b>	
	UN3448, TEAR GAS SUBSTANCE, SOLID, N.O.S., 6.1, II

## 15 Regulatory information

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

<b>· Section 355 (extremely hazardous substances):</b>	
None of the ingredients is listed.	
<b>· Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	
<b>· TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	
<b>· Proposition 65 (California):</b>	
<b>· Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>· Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>· Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>· Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	
<b>· Carcinogenic Categories</b>	
<b>· EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	
<b>· IARC (International Agency for Research on Cancer)</b>	
None of the ingredients is listed.	
<b>· TLV (Threshold Limit Value established by ACGIH)</b>	
2698-41-1 [(2-chlorophenyl)methylene]malononitrile	A4
57-50-1 sucrose, pure	A4
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	

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

None of the ingredients is listed.

· **Canada**

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

CAS 2698-41-1: Not listed on the DSL, listed on the Non-Domestic Substances List (NDSL).

3811-04-9 potassium chlorate

9004-70-0 Nitrocellulose, colloided, granular

7760-50-1 Magnesium Carbonate

57-50-1 sucrose, pure

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

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

· **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**

H200 Unstable explosives.

H271 May cause fire or explosion; strong oxidiser.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

R1 Explosive when dry.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R25 Toxic if swallowed.

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

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

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

R9 Explosive when mixed with combustible material.

· **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

EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
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)  
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](http://www.chemtelinc.com)