

# Safety Data Sheet

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

Printing date 19.06.2013

Revision: 19.06.2013

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

- **1.1 Product identifier**
- **Trade name: CS Capsules**
- **Article number: 1693**
- **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  
11386 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**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

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



T; Toxic

R25: Toxic if swallowed.

- **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.

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- **Hazard pictograms**



GHS06

- **Signal word** Danger

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

[(2-chlorophenyl)methylene]malononitrile

- **Hazard statements**

H301 Toxic if swallowed.

- **Precautionary statements**

P264 Wash thoroughly after handling.

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

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

P330 Rinse mouth.

- **Hazard description:**

- **WHMIS-symbols:**

D1A - Very toxic material causing immediate and serious toxic effects



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



Health = 3

Fire = 0

Reactivity = 0

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



Health = 3

Fire = 0

Reactivity = 0

- **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.

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· **Dangerous components:**

CAS: 2698-41-1	[(2-chlorophenyl)methylene]malononitrile	>50%
EINECS: 220-278-9	 T R25	
	 Acute Tox. 3, H301	

· **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:**

Take affected persons out into the fresh air.  
Provide oxygen treatment if affected person has difficulty breathing.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Do not leave affected persons unattended.  
Personal protection for the First Aider.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air.  
Seek immediate medical advice.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
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**

Coughing  
Breathing difficulty  
Nausea  
Cramp  
Thirst  
Dizziness  
Profuse sweating  
Disorientation

· **Hazards**

Danger of pulmonary oedema.  
Danger of cerebral oedema.  
Danger of convulsion.  
Danger of impaired breathing.  
Danger of disturbed cardiac rhythm.

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Condition may deteriorate with alcohol consumption.

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.

Monitor circulation, possible shock treatment.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

Later observation for pneumonia and pulmonary oedema.

## 5 Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Alcohol resistant foam

Foam

Fire-extinguishing powder

Gaseous extinguishing agents

Carbon dioxide

Water in flooding quantities.

· **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**

Evacuate area and fight fire from from the upwind side.

Use large quantities of foam as it is partially destroyed by the product.

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog or haze.

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.

Ensure adequate ventilation

Isolate area and prevent access.

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

Keep people at a distance and stay on the windward side.

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Dispose of the material collected according to regulations.
- 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**

- Store in cool, dry place in tightly closed receptacles.
- Prevent formation of dust.

- **Information about fire - and explosion protection:** 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.
- Provide ventilation for receptacles.

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

- Store away from foodstuffs.
- Store away from oxidizing agents.
- Do not store together with acids.
- Do not store together with alkalis (caustic solutions).
- Store away from water.

- **Further information about storage conditions:**

- Store in cool, dry conditions in well sealed receptacles.
- Keep container tightly sealed.
- Store receptacle in a well ventilated area.
- Protect from humidity and water.

- **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

- **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:**



Personal protective equipment must be selected to prevent inhalation of vapors and contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron, and combination particle/vapor respirator should be worn. In some cases, supplied air, full body suits and boots will be needed.

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.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

### • **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.

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- **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:**  
Face protection  
Safety glasses
- **Body protection:** Full head, face and neck protection
- **Limitation and supervision of exposure into the environment**  
No further relevant information available.
- **Risk management measures**  
Organizational measures should be in place for all processing activities involving this material. Specialist advice recommended.  
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:	Crystalline
Colour:	White
Odour:	Pungent
Odour threshold:	Not determined.

· pH-value: Not applicable.

#### · Change in condition

Melting point/Melting range:	Metling Point Range: 203-205 ° F / 95-96 °C.
Boiling point/Boiling range:	Boiling Point Range: 590-599 ° F / 310-315 °C.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

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

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: <0,1 Pa (<0.0001 mm Hg)

· Density at 20 °C: < 1,0 g/cm<sup>3</sup>

· Relative density: Not determined.

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· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient (n-octanol/water) at 20 °C:	>1,0 log POW (Estimate)
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	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.  
Avoid temperatures above 120 °F / 49 °C.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Develops toxic gases/fumes.  
Develops corrosive gases/fumes.  
Contact with acids releases toxic gases.
- **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Contact with acids liberates toxic gases.
- **10.6 Hazardous decomposition products:**  
Poisonous gases/vapours  
Corrosive gases/vapours  
Danger of forming toxic pyrolysis products.  
Strong tear gas

### 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **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:

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Toxic

Danger through skin adsorption.

Normal handling of the undeployed product poses little or no health hazards, One should avoid inhalation by wearing appropriate respiratory protection when exposed to the chemical ingredients of the product above listed TLV's or when exposed to the post ignition by-products. This product is a canister which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is used, particles may be generated which may be irritating to the eyes and the respiratory tract.

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

## 12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** The material is harmful to the environment.

- **12.2 Persistence and degradability** biodegradable

- **12.3 Bioaccumulative potential** Does not accumulate in organisms.

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

- **Ecotoxicological effects:**

- **Remark:** The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

- **Additional ecological information:**

- **General notes:**

The declarations are valid for the component with the highest toxicological risk.

Avoid transfer into the environment.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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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## 14 Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	UN3448
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· DOT</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	Tear gas substance, solid, n.o.s. ([[2-chlorophenyl]methylene]malononitrile) 3448 TEAR GAS SUBSTANCE, SOLID, N.O.S. ([[2-chlorophenyl]methylene]malononitrile) TEAR GAS SUBSTANCE, SOLID, N.O.S. ([[2-chlorophenyl]methylene]malononitrile)
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· DOT</li> </ul>	<div style="text-align: center;">  <p>TOXIC</p> </div> 6.1 Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· ADR</li> </ul>	<div style="text-align: center;">  </div> 6.1 (T2) Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div> 6.1 Toxic substances. 6.1
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	II
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Danger code (Kemler):</li> <li>· EMS Number:</li> </ul>	Warning: Toxic substances. 60 F-A,S-A
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	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. ([(2-chlorophenyl)methylene]malononitrile), 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

· <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)**

All ingredients are listed.

- **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**

H301 Toxic if swallowed.

R25 Toxic 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

EINECS: European Inventory of Existing Commercial Chemical Substances

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)

- **Sources**

SDS Prepared by:

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