

# Safety Data Sheet

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

Printing date: December 07, 2017

Revision: December 07, 2017

## 1 Identification

- **Product identifier**

- **Trade name:** First Defense® Live CS Gel, MK-3  
First Defense® Live CS Gel, MK-4  
First Defense® Live CS Gel, MK-9  
First Defense® Live CS Gel, 360° Delivery, MK-3  
First Defense® Live CS Gel, 360° Delivery, MK-4  
First Defense® Live CS Gel, 360° Delivery, MK-9

- **Product code:**

- 56931 (1206753) - First Defense® Live CS Gel, MK-3
- 56941 (1206754) - First Defense® Live CS Gel, MK-4
- 56991 (1206755) - First Defense® Live CS Gel, MK-9
- 56231 (1206756) - First Defense® Live CS Gel, 360° Delivery, MK-3
- 56241 (1206757) - First Defense® Live CS Gel, 360° Delivery, MK-4
- 56291 (1206759) - First Defense® Live CS Gel, 360° Delivery, MK-9

- **Recommended use and restriction on use**

- **Recommended use:** Crowd Control Device
- **Restrictions on use:** Contact manufacturer/supplier

- **Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier:**

Safariland, LLC  
13386 International Parkway  
Jacksonville, FL 32218  
Customer Care (800) 347-1200

- **Information department:** Customer Care Department

- **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**

- Press. Gas H280 Contains gas under pressure; may explode if heated.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.  
0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**

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GHS04 GHS07 GHS08

· **Signal word:** Danger

· **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

· **Precautionary statements:**

P261 Avoid breathing mist/vapors/spray.

P264 Wash thoroughly after handling.

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 / eye protection / face protection.

P284 Wear respiratory protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 Call a poison center/doctor if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P412 Do not expose to temperatures exceeding 50°C/122°F.

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

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 1

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 3

Reactivity = 1

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

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## 3 Composition/information on ingredients

· **Chemical characterization:** Mixtures

· **Components:**

57-55-6	propylene glycol	>80%
2698-41-1	[(2-chlorophenyl)methylene]malononitrile  Acute Tox. 3, H301; Acute Tox. 2, H330  Resp. Sens. 1, H334  Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	2.5-5%
7727-37-9	nitrogen  Press. Gas, H280 Simple Asphyxiant	Propellant%

· **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**

· **General information:**

Immediately remove any clothing soiled by the product.

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

Take affected persons out into the fresh air.

· **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

If experiencing respiratory symptoms: Call a poison center/doctor.

Provide oxygen treatment if affected person has difficulty breathing.

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

· **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Protect unharmed eye.

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.

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- **Most important symptoms and effects, both acute and delayed:**
  - Asthma attacks
  - Nausea
  - Gastric or intestinal disorders
  - Breathing difficulty
  - Coughing
  - Allergic reactions
  - Irritating to eyes and skin.
  - Disorientation
- **Danger:** Danger of impaired breathing.
- **Indication of any immediate medical attention and special treatment needed:**
  - Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
  - Medical supervision for at least 48 hours.
  - If necessary oxygen respiration treatment.
  - Later observation for pneumonia and pulmonary edema.
  - Treat skin and mucous membrane with antihistamine and corticoid preparations.
  - Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.
  - If medical advice is needed, have product container or label at hand.
  - In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
  - During heating or in case of fire poisonous gases are produced.
  - Danger of receptacles bursting because of high vapor pressure if heated.
- **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.
  - Cool endangered product with water spray.

### 6 Accidental release measures

- **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.

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Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Isolate area and prevent access.

- **Environmental precautions** No special measures required.
- **Methods and material for containment and cleaning up**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Pick up mechanically.  
 Dispose contaminated material as waste according to item 13.  
 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:**  
 Avoid splashes or spray in enclosed areas.  
 Use only in well ventilated areas.
- **Information about protection against explosions and fires:**  
 Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Observe official regulations on storing packagings with pressurized containers.  
 Provide ventilation for receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **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:**

### 57-55-6 propylene glycol

WEEL (USA)	Long-term value: 10 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 155* 10** mg/m <sup>3</sup> , 50* ppm *vapour and aerosol;**aerosol only

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### 7727-37-9 nitrogen

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

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

PEL (USA)	Long-term value: 0.4 mg/m <sup>3</sup> , 0.05 ppm
REL (USA)	Ceiling limit value: 0.4 mg/m <sup>3</sup> , 0.05 ppm Skin
TLV (USA)	Ceiling limit value: 0.39 mg/m <sup>3</sup> , 0.05 ppm Skin
EL (Canada)	Ceiling limit value: 0.05 ppm Skin, S(D)
EV (Canada)	Ceiling limit value: 0.4 mg/m <sup>3</sup> , 0.05 ppm Skin
LMPE (Mexico)	Ceiling limit value: 0.05 ppm A4, PIEL

- **Exposure controls**

- **Personal protective equipment:**

- **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.

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

- **Breathing equipment:**

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

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **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

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substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:**

Protective work clothing

Protection may be required for spills.

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

No relevant information available.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

Form: Aerosolized gel.

Color: Light amber.

· **Odor:** Medicinal.

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not applicable, as aerosol.

· **Boiling point/Boiling range:** Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Flammability (solid, gaseous):** Not applicable.

· **Auto-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

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

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

· **Oxidizing properties:** Non-oxidizing.

· **Vapor pressure:** Not determined.

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· **Density:** Not determined.  
 · **Relative density:** Not determined.  
 · **Vapor density:** Not determined.  
 · **Evaporation rate:** Not applicable.

· **Solubility in / Miscibility with Water:** Fully miscible.

· **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:**  
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
 Danger of receptacles bursting because of high vapor pressure if heated.  
 Reacts with strong oxidizing agents.  
 Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** No relevant information available.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**  
 Carbon monoxide and carbon dioxide  
 Halogenated hydrocarbons

## 11 Toxicological information

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

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

### ATE (Acute Toxicity Estimate)

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg
Inhalative	LC50/4h	10.1 - 20 mg/l

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

Oral	LD50	178 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:**  
 Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.  
 May cause sensitisation by inhalation and skin contact.

#### · 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:

Inhalation.  
 Eye contact.  
 Skin contact.

#### · Acute effects (acute toxicity, irritation and corrosivity):

Harmful if inhaled.  
 Irritating to eyes and skin.

#### · Repeated dose toxicity:

May cause sensitisation by inhalation and 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:

Based on available data, the classification criteria are not met.

#### · STOT-single exposure:

Based on available data, the classification criteria are not met.

#### · STOT-repeated exposure:

Based on available data, the classification criteria are not met.

#### · Aspiration hazard:

Based on available data, the classification criteria are not met.

## 12 Ecological information

### · Toxicity

#### · Aquatic toxicity

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

EC50	0.2-0.3 mg/kg (Oncorhynchus mykiss)
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#### · Persistence and degradability

No relevant information available.

#### · Bioaccumulative potential:

No relevant information available.

#### · Mobility in soil:

No relevant information available.

#### · Additional ecological information

#### · General notes:

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

· **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:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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. Residual materials should be treated as hazardous.

· **Uncleaned packagings**

· **Recommendation:**

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**

· DOT, ADR, IMDG, IATA UN1950

· **UN proper shipping name**

· DOT Aerosols, non-flammable,  
 · ADR, IMDG AEROSOLS  
 · IATA AEROSOLS, non-flammable

· **Transport hazard class(es)**

· DOT



· **Class** 2.2

· **Label** 2.2

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· **ADR**



· **Class** 2 5A Gases  
 · **Label** 2.2

· **IMDG, IATA**



· **Class** 2.2  
 · **Label** 2.2

· **Packing group** This UN-number is not assigned a packing group.

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user**

Warning: Gases

· **Danger code (Kemler):**

-

· **EMS Number:**

F-D,S-U

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

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **IMDG**

· **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **IATA**



Cargo Aircraft Only.

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture** (Cont'd. on page 12)

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· **United States (USA)**

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

· **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 reproductive toxicity for females:**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

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

All ingredients listed on DSL or NDSL.

## 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.

· **Date of preparation / last revision** December 07, 2017 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LDLo: Lowest Lethal Dose Observed

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

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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  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety & Health Administration  
 Press. Gas: Gases under pressure – Compressed gas  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 2: Acute toxicity – Category 2  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 Resp. Sens. 1: Respiratory sensitisation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

## · Sources

Website, European Chemicals Agency (echa.europa.eu)  
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)  
 Website, Chemical Abstracts Registry, American Chemical Society (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., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

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