



## Safety Data Sheet

All Models Powerlets

Date of Preparation/Revision:

February 16, 2015

### Section 1: Identification

- |                                      |  |
|--------------------------------------|--|
| 1.1 Product Identifier:              | Crosman Powerlet   |
| 1.2 Other means of Identification:   | Compressed CO <sub>2</sub> , Carbon Dioxide  |
| 1.3 Recommended Use:                 | Propellant   |
| 1.4 Supplier:                        | Crosman Corporation<br>7629 State Route 5 & 20<br>Bloomfield, New York 14469<br>(585) 657-6161 |
| 1.5 Transportation Emergency Number: | CHEMTREC: 1- 800-424-9300  |

### Section 2: Hazard Identification

- |   |                      |
|---|----------------------|
| 2.1 Classification of the substance or mixture: | GASES UNDER PRESSURE |
| 2.1.1   | liquefied gas        |
| 2.2 Label Elements:                             |                      |
| 2.2.1 Hazard Pictogram:                         |                      |



Signal Word:

WARNING

Hazard Statements:

Contains gas under pressure; may explode if heated.  
May cause frostbite.  
May displace oxygen and cause rapid suffocation.

Precautionary Statements:

General:

Keep out of reach of children.

Prevention:

Use only outdoors or in well ventilated area.

Response:

Not applicable

Storage:

Store in a well ventilated place.

Disposal:

Not Applicable.

Hazards not otherwise specified:

This product may displace oxygen and cause rapid suffocation.  
May cause frostbite.

**Section 3: Composition/Information on Ingredients**

- 3.1 Substance/Mixture: Substance
- 3.1.1 Chemical Name: Carbon Dioxide
- 3.1.2 Other Means of Identification: CO2
- 3.1.3 CAS Number/other identifiers: CAS Number 124-38-9

Ingredient Name	CAS Number	% Volume
Carbon Dioxide	124-38-9	100

- 3.1.4 Impurities and stabilizing additives: There are no additional ingredients present to the knowledge of the supplier, and in applicable concentrations, that are classified as hazardous to health or the environment that would require reporting in this section.

**Section 4: First Aid Measures**

4.1 Description of necessary first aid measures

- Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention immediately.
- Skin contact: Flush skin with adequate amounts of water. Remove contaminated clothing and shoes. Seek medical attention immediately. Wash clothes and shoes before reuse.
- Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt or waistband. Seek medical attention immediately.
- Ingestion: As this product is a gas, refer to the inhalation section.

4.2 Most important symptoms/effects, acute and delayed.

- Potential acute health affects:
  - Eye contact: No known significant effects or critical hazards
  - Inhalation: No known significant effects or critical hazards
  - Skin Contact: No known significant effects or critical hazards
  - Frostbite: Try to warm up the frozen tissues and seek medical attention.
  - Ingestion: As this product is a gas, refer to the inhalation section.

## Section 4: **First Aid Measures**

### 4.2 Most important symptoms/effects, acute and delayed.

Over-exposure signs and symptoms:

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin Contact:	No specific data.
Ingestion:	No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.
Protection of first-aid responders:	No action should be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

## Section 5: **Fire Fighting Measures**

5.1 Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Un-suitable extinguishing media:	None known.
Specific hazards arising from the chemical:	Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
Hazardous thermal decomposition products:	Decomposition products may include the following: Carbon dioxide Carbon monoxide
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6: **Accidental Release Measures**

6.1 Personal precautions, protective equipment and emergency procedures:	Use suitable protective equipment.
6.1.1 For non-emergency personnel:	No action should be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation.

## Section 6: **Accidental Release Measures**

- 6.1.1 For non-emergency personnel: Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 6.1.2 For emergency personnel: If specialized clothing is required to deal with spillage, take note of any information in Section 8 on suitable materials. See also the information in "For non-emergency personnel".
- 6.2 Environmental Precautions: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).
- 6.3 Methods and materials for containment and cleanup:
- 6.3.1 Spill containment and cleanup techniques:
- Small spill: Immediately contact emergency personnel. Stop leak if can do so without risk.
- Large Spill: Immediately contact emergency personnel. Stop leak if can do so without risk.

## Section 7: **Handling and Storage**

- 7.1 Precautions for safe handling:
- 7.1.1 Protective measures: Don appropriate personal protective equipment (See Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers may retain residual material.
- 7.1.2 Advice on general occupational hygiene: Eating, drinking and smoking should be avoided in areas where this material is handled or stored. Wash hands before eating, drinking and smoking. See Section 8 for additional information.
- 7.2 Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store away from direct sunlight in a cool, dry and well-ventilated area. Do not store in an area where the temperature can exceed 52°C (125°F).

## Section 8: **Exposure Controls / Personal Protection**

- 8.1 Control parameters
- Occupational exposure limits:
- Ingredient name: Exposure Limits
- Carbon Dioxide **ACGIH TLV (US 3/2012) Oxygen Depletion (Asphyxiant)**
- STEL: 54000 mg/m<sup>3</sup> 15 minutes
- STEL: 30000 ppm 15 minutes
- TWA: 9000 mg/m<sup>3</sup> 8 hours
- TWA: 5000 ppm 8 hours

Section 8: **Exposure Controls / Personal Protection**

8.1 Control parameters

Occupational exposure limits:

Ingredient name:

Carbon Dioxide

Exposure Limits

**NIOSH REL (United States, 1/20130)**

STEL: 54000 mg/m<sup>3</sup> 15 minutes

STEL: 30000 ppm 15 minutes

TWA: 9000 mg/m<sup>3</sup> 10 hours

TWA: 5000 ppm 10 hours

**OSHA PEL (US, 11/2006)**

TWA: 9000 mg/m<sup>3</sup> 8 hours

TWA: 5000 ppm 8 hours

**OSHA PEL 1989 (US, 3/1989)**

STEL: 54000 mg/m<sup>3</sup> 15 minutes

STEL: 30000 ppm 15 minutes

TWA: 18000 mg/m<sup>3</sup> 8 hours

TWA: 10000 ppm 8 hours

8.2 Appropriate engineering controls:

Good general ventilation should be adequate to control exposure.

Environmental exposure controls:

Good general ventilation should be adequate to control exposure.

8.3 Individual protection measures:

8.3.1 Hygiene measures:

Wash hands thoroughly after handling product, before eating, drinking or smoking and using the lavatory. Wash contaminated clothing before reusing.

8.3.2 Eye/face protection:

Safety eyewear complying with ANSI Z87.1 standard or equivalent should be worn when using this product.

Skin Protection:

Hand, body protection:

Under normal use of this product, no skin, hand or body protection should be anticipated to be required.

Respiratory Protection:

Under normal use of this product, no respiratory protection should be anticipated to be required.

**Section 9: Physical and Chemical Properties**

Appearance:	
Physical State:	Gas
Color:	Colorless
Odor:	Odorless
Odor Threshold:	Not available
pH:	Not available
Melting point/freezing point:	Sublimation Temperature: -79°C (-110.2°F)
Initial boiling point and boiling range:	-78.6°C (-109.5°F)
Flashpoint:	material does not sustain combustion
Evaporation Rate:	Not available
Flammability (solid, gas):	Not available
Upper /lower explosive (flammability) limits:	Not available
Vapor Pressure:	830 (psig)
Relative density (Vapor Density):	1.53 (Air = 1)
Gas Density (lb./ft <sup>3</sup> ):	0.114
Solubility:	Not available
Partition Coefficient: n-octanol/water:	0.83
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Molecular Weight:	44.01 g/mole
Molecular Formula:	CO <sub>2</sub>
Specific Volume (ft <sup>3</sup> /lb.):	8.7719
Critical Temperature:	30.85°C (87.5°F)

**Section 10: Stability and Reactivity**

10.1 Reactivity:	There are no specific test data for reactivity available for this product.
10.2 Chemical Stability:	This product is stable.
10.3 Possibility of hazardous reactions:	Hazardous reactions will not occur during proper use of product.
10.4 Conditions to avoid:	There are no specific data available.
10.5 Incompatible materials:	There are no specific data available.
10.6 Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products will not occur.
Hazardous polymerization:	Under normal conditions of storage and use, hazardous decomposition products will not occur.

## Section 11: Toxicological Information

11.1 Acute toxicity:	Data not available.
Skin corrosion/irritation:	Data not available.
Serious eye damage/irritation:	Data not available.
Respiratory or skin sensitization:	Data not available.
Germ cell mutagenicity:	Data not available.
Carcinogenicity:	Data not available.
Reproductive toxicity:	Data not available.
STOT-single exposure:	Data not available.
STOT-repeated exposure:	Data not available.
Aspiration hazard:	Data not available.
11.7 Information on the likely routes of exposure:	
Inhalation:	This is the most likely potential route of exposure
11.8 Symptoms related to the physical, chemical, and toxicological characteristics:	
Eye contact:	No known significant effects as packaged.
Inhalation:	No known significant effects as packaged.
Skin contact:	No known significant effects as packaged.
Ingestion:	No known significant effects as packaged.
11.9 Delayed and immediate effects and also chronic effects from short term and long term exposure:	
Short term exposure:	
Potential immediate effects:	Data not available.
Potential delayed affects:	Data not available.
Long term exposure:	
Potential immediate effects:	Data not available.
Potential delayed affects:	Data not available.
Potential acute health effects:	No known significant effects as packaged.
Potential chronic health effects:	No known significant effects as packaged.
11.10 Numerical measures of toxicity:	Data not available.
11.11 Interactive effects:	Data not available.
11.15 Other information:	In high concentrations, carbon dioxide is an asphyxiant.

<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
LC50 Inhalation Gas	Rat	470000 ppm	30 minutes
IDLH:		40000 ppm	

## Section 12: Ecological Information

Toxicity:			
<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
LC50 Inhalation Gas	Rat	470000 ppm	30 minutes
Persistence and degradability:		Carbon dioxide occurs in the atmosphere at approximately 400 ppm.	
Bioaccumulative potential:		Not applicable	
Mobility in soil:		Not applicable	
Other adverse effects:		No known significant effects as packaged.	

### Section 13: Disposal Considerations

Product must be disposed of in accordance with all appropriate Federal, State, and local regulations. Please recycle the empty cartridge. Do not dispose of the empty cartridge in a sewer. Do not incinerate full cartridges.

### Section 14: Transport Information

14.1 UN Number: UN1013  
14.2 UN Proper Shipping Name: CARBON DIOXIDE  
14.3 Transport Hazard Class: 2.2



14.4 Packing Group: Not Applicable (compressed gas)  
14.5 Environmental hazards: Not listed as a marine pollutant.  
Additional information: Shipping labels: 2.2 Nonflammable Gas  
Placard (when required): Nonflammable gas  
Product is shipped from manufacturer in only limited quantity packaging.

### Section 15: Regulatory Information

United States

U.S. Federal Regulations:

**TSCA 8(a) CDR Exempt/Partial exemption:**

This material is listed or exempted.

**United States inventory (TSCA 8b):**

This material is listed or exempted.

**SARA 302/304:**

No products were found

**SARA 304 Reportable Quantity (RQ):** None

**SARA 304 Threshold Planning Quantity (TPQ):** None

**SARA 302/304/311/312 Hazardous Chemicals:**

carbon dioxide

**SARA 311/312 SDS distribution - chemical**

**inventory - hazard identification:**

**Fire:** No **Sudden release of Pressure:** Yes

**Reactivity:** No **Immediate (acute):** Yes

**Delayed (Chronic):** No

**SARA 313:** Not subject to reporting under this section.

**Clean Water Act (CWA) 307:**

No products were found.

**Clean Water Act (CWA) 311:**

No products were found.

**Clean Air Act :** Not listed

**DEA List I Chemicals:** Not Listed

**DEA List II Chemicals:** Not Listed

**OSHA 29CFR1910.119:** Not Listed



Section 15: **Regulatory Information**

State Regulations:

**California Proposition 65:** Not Listed

**Connecticut Carcinogen Reporting:**

This material is not listed.

**Connecticut Hazardous Material Survey:**

This material is not listed.

**Florida Substances:**

This material is not listed.

**Illinois Chemical Safety Act:**

This material is not listed.

**Illinois Toxic Substances Disclosure to**

**Employee Act:**

This material is not listed.

**Louisiana Reporting:**

This material is not listed.

**Louisiana Spill:**

This material is not listed.

**Massachusetts Spill:**

This material is not listed.

**Massachusetts Substances:**

This material is not listed.

**Michigan Critical Material:**

This material is not listed.

**Minnesota Hazardous Substances:**

This material is not listed.

**New Jersey Hazardous Substances:**

This material is not listed.

**New Jersey Spill:**

This material is not listed.

**New Jersey Toxic Catastrophe Prevention Act:**

This material is not listed.

**New York Acutely Hazardous Substances:**

This material is not listed.

**New York Toxic Chemical Release reporting:**

This material is not listed.

**Pennsylvania RTK Hazardous Substances:**

This material is not listed.

**Rhode Island Hazardous Substances:**

This material is not listed.

## Section 15: **Regulatory Information**

International Regulation:

Canada

Class A: Compressed Gas.

**CEPA Toxic Substances:** Listed

**Canadian ARET:** Not Listed.

**Canadian NPRI:** Not Listed

**Alberta Designated Substances:** Not Listed

**Ontario Designated Substances:** Not Listed

**Quebec Designated Substances:** Not Listed

Australia

**Australia Inventory (AICS):**

This material is listed or exempt.

China

**China Inventory (IECSC):** This material is listed or exempt.

Japan

**Japan Inventory:** This material is listed or exempt.

Korea

**Korea Inventory:** This material is listed or exempt.

New Zealand

**New Zealand Inventory of Chemicals (NZIoC):**

This material is listed or exempt.

Philippines

**Philippines Inventory (PICCS):**

This material is listed or exempt.

## Section 16: **Other Information**

**GAS: CONTENTS UNDER PRESSURE. MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION.**

**Note:** To the best of our knowledge, the information contained in this document is accurate.  
No liability is assumed for the accuracy or completeness of the information contained in this document.

All materials may present unknown hazards and should be used with caution.

Although certain hazards have been noted in this document, there is no guarantee that these are the only hazards that exist.