



Safety Data Sheet

All Models Powerlets

Section 1: Identification

Product Name:	Crosman Powerlet
Synonyms:	Compressed CO ₂ , Carbon Dioxide
CAS Number:	124-38-9
Product Use:	Propellant
Manufacturer:	Crosman Corporation
Address:	7629 State Route 5 & 20 Bloomfield, New York 14469
General Information Phone Number:	(585) 657-6161
Transportation Emergency Number:	CHEMTREC: 800-424-9300
Date of Preparation/Revision:	January 1, 2014

Section 2: Hazard Identification

Physical State:	Gas
Emergency Overview:	WARNING!

CONTENTS UNDER PRESSURE.
MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION. CAN CAUSE TARGET ORGAN DAMAGE.
Do not puncture or incinerate container.
Can cause rapid suffocation.
Avoid breathing gas. Use with adequate ventilation.
contact with rapidly expanding gas can cause frostbite.

GHS label elements

The substance is classified and labelled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS03 Gas Cylinder

Signal word

Warning

Hazard Statement	H280 - Contains gas under pressure; may explode if heated
Precautionary statements	P410+P403 - Protect from sunlight. Store in a well-ventilated place
<u>Potential acute health effects</u>	
Eyes:	Moderately irritating to eyes. Contact with rapidly expanding gasses may cause burns or frostbite.
Skin:	Moderately irritating to skin. Contact with rapidly expanding gasses may cause burns or frostbite.
Inhalation:	Moderately irritating to respiratory system.
Ingestion:	Ingestion is not a normal route of exposure for gases.
<u>Potential chronic health effects</u>	
Carcinogenic Effects:	Not available
Mutagenic Effects:	Not available
Teratogenic Effects:	Not available
Medical Conditions aggravated by over-exposure:	Pre-existing disorders involving any target organs mentioned above as being at risk may be aggravated by over-exposure to this product.

Section 3: <i>Composition</i>

<u>Name</u>	<u>CAS Number</u>	<u>% Volume</u>
Carbon Dioxide	124-38-9	100

Section 4: <i>First Aid Measures</i>

Eyes:	Check for and remove contact lenses. Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin:	In case of contact, flush skin with copious amounts of water for at least 15 minutes. Seek medical attention immediately.
Frostbite:	Try to warm up the frozen tissues and seek medical attention.
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.

Section 5: Fire Fighting Measures

Flammability of Product: Non-Flammable
Combustion Products: Decomposition products may include the following materials:
~~carbon dioxide~~
carbon monoxide
Suitable Extinguishing Media: Use an extinguishing agent that is suitable for the surrounding fire.
Fire-Fighting Procedures: Apply water or other suitable extinguishing agent from a safe distance to cool the container and protect surrounding area.
Unusual Fire and Explosion Hazards: Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Section 6: Accidental Release Measures

Personal Protection: Use suitable protective equipment.
Environmental Precautions: Discard any product in an environmentally acceptable manner, in compliance with all federal, state and local regulations.

Section 7: Handling and Storage

Handling
Use good hygiene practices. Wash hands before eating, drinking or smoking.
Keep away from heat and flame. Do not puncture container.
Storage
Store in a cool, dry, well-ventilated area away from heat and sources of ignition.
Protect against physical damage. Storage temperature should not exceed 52°C (125°F).

Section 8: Exposure Controls / Personal Protection

Exposure Limits
ACGIH TLV (US 1/2008)
STEL: 54000 mg/m³ 15 minutes
STEL: 30000 ppm 15 minutes
TWA: 9000 mg/m³ 8 hours
TWA: 5000 ppm 8 hours
NIOSH REL (US, 6/2008)
STEL: 54000 mg/m³ 15 minutes
STEL: 30000 ppm 15 minutes
TWA: 9000 mg/m³ 10 hours
TWA: 5000 ppm 10 hours
OSHA PEL (US, 11/2006)
TWA: 9000 mg/m³ 8 hours

TWA: 5000 ppm 8 hours
OSHA PEL 1989 (US, 3/1989)
 STEL: 54000 mg/m³ 15 minutes
 STEL: 30000 ppm 15 minutes
 TWA: 18000 mg/m³ 8 hours
 TWA: 10000 ppm 8 hours

Engineering Controls	Use with adequate ventilation.
Personal Protection - Eyes	Wear appropriate safety glasses/goggles.
Personal Protection - Skin	Personal protective equipment for the body should be selected based upon the tasks being performed and the risks associated with those tasks.
Personal Protection - Respiratory	No special protection required under normal product usage.
Personal Protection - Hands	Personal protective equipment for the body should be selected based upon the tasks being performed and the risks associated with those tasks.

Section 9: *Physical and Chemical Properties*

Molecular Weight:	44.01 g/mole
Molecular Formula:	CO ₂
Boiling/condensation point:	-78.6°C (-109.5°F)
Melting/freezing point:	Sublimation Temperature: -78.6°C (-109.5°F)
Critical Temperature:	30.9°C (87.6°F)
Vapor Pressure:	830 (psig)
Vapor Density:	1.53 (Air = 1)
Specific Volume (ft ³ /lb):	8.7719
Gas Density (lb/ft ³):	0.114

Section 10: *Stability and Reactivity*

Stability and Reactivity	This product is stable
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11: *Toxicological Information*

Target Organs:	May cause damage to the following organs: lungs, cardiovascular system, skin, eyes, central nervous system (CNS).
Routes of Entry:	Inhalation

Toxicity Data

Product/ingredient name: carbon dioxide

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

IDLH: 40000 ppm
 Chronic effects on humans: May cause damage to the following organs: lungs, cardiovascular system, skin, eyes, central nervous system.

~~Carcinogenic effects: None known~~
 Mutagenic effects: None known
 Reproductive effects: None known

Section 12: Ecological Information

Aquatic ecotoxicity: Not available
 Products of Degradation: Not available
 Environmental fate: Not available
 Environmental Hazards: No known significant effects or critical hazards.
 Toxicity to the environment: Not available

Section 13: Disposal Considerations

Product must be disposed of in accordance with all appropriate Federal, State, and local regulations.

Section 14: Transport Information

United States
 DOT Classification
 UN Number: UN1013
 Proper Shipping Name: CARBON DIOXIDE
 Class: 2.2
 Packing Group: Not Applicable (gas)
 Label: 2.2

UN Number: UN2187
 Proper Shipping Name: Carbon dioxide, refrigerated liquid
 Class: 2.2
 Packing Group: Not Applicable (gas)
 Label: 2.2

Canada
 TDG Classification
 UN Number: UN1013
 Proper Shipping Name: CARBON DIOXIDE
 Class: 2.2
 Packing Group: Not Applicable (gas)
 Label: 2.2

UN Number: UN2187
 Proper Shipping Name: Carbon dioxide, refrigerated liquid
 Class: 2.2
 Packing Group: Not Applicable (gas)

Label: 2.2

Mexico

UN Number: UN1013
Proper Shipping Name: CARBON DIOXIDE
Class: 2.2
Packing Group: Not Applicable (gas)
Label: 2.2

UN Number: UN2187
Proper Shipping Name: Carbon dioxide, refrigerated liquid
Class: 2.2
Packing Group: Not Applicable (gas)
Label: 2.2

Section 15: Regulatory Information

United States

U.S. Federal Regulations:

United States inventory (TSCA 8b):

This material is listed or exempted.

SARA 302/304/311/312 Extremely Hazardous Substances: No products were found

SARA 302/304 Emergency Planning and Notification: No products were found.

SARA 302/304/311/312 Hazardous Chemicals:
carbon dioxide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

carbon dioxide: sudden release of pressure, immediate (acute) health hazard, delayed (chronic) health hazard.

Clean Water Act (CWA) 307:

No products were found.

Clean Water Act (CWA) 311:

No products were found.

Clean Air Act (CAA) 112 accidental release prevention:

No products were found.

Clean Air Act (CAA) 112 regulated flammable substances:

No products were found.

Clean Air Act (CAA) 112 regulated toxic substances:

No products were found.

State Regulations:

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.

Canada
WHMIS:

Class A: Compressed Gas.

CEPA Toxic Substances:

This material is not listed.

Canadian ARET:

This material is not listed.

Canadian NPRI:

This material is not listed.

Alberta Designated Substances:

This material is not listed.

Ontario Designated Substances:

This material is not listed.

Quebec Designated Substances:

This material is not listed.

Section 16: Other Information

United States Label Requirements:

GAS:

~~CONTENTS UNDER PRESSURE. CAUSE~~
RESPIRATORY TACT, EYE, AND SKIN
IRRITATION. CAN CAUSE TARGET ORGAN
DAMAGE.

Do not puncture or incinerate container.

Can cause rapid suffocation.

Canada Label Requirements:

Class A: Compressed Gas.

Hazardous Material Information
System (U.S.A.):

Health	1*
Flammability	0
Physical Hazards	0

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