

# MATERIAL SAFETY DATA SHEET

## 1. Product Identification

***Product Identifier:*** Fire Extinguisher Carbon Dioxide  
Chemical Name: Carbon Dioxide, Carbonic Acid Gas  
Chemical Family: Acid Anhydride  
Formula: CO<sub>2</sub>  
***Product Use:*** Used in the application of extinguishing fires

### ***Manufacturer's Name and Telephone Number:***

Strike First Corporation  
777 Tapscott Rd.  
Scarborough, Ontario  
M1X 1A2

**Emergency Telephone Number:** 613-996-6666  
CANUTEC

Technical Information: 416-299-7767

## 2. Hazardous Ingredients

<u>Name</u>	<u>%</u>	<u>Cas #</u>	<u>LD50</u>	<u>LC50</u>
Carbon Dioxide	100.0124-38-9		N. App	N. Av.

Fire Extinguishers contain compressed air to ensure a high velocity discharge of product.  
WHMIS Class A.

## 3. Physical Data

Physical State	Gas
Appearance	Colourless
Odour	Odourless
Odour Threshold (ppm)	Not Applicable
Vapour Pressure (mm Hg)	5824 kPa at 21 Degrees C
Evaporation Rate	Not Applicable
Boiling Point (Degrees C)	Not Applicable
Freezing Point	Sublimes at 1 atm at -78.5 Degrees C
Vapour Density	1.53
Specific Gravity	0.713 (H <sub>2</sub> O=1)
Solubility in Water	Not Applicable

**4.**

**Fire and Explosion Data**

Flashpoint (Degrees C) and Method	Non-Flammable
Means of Extinction	Not Applicable
Upper Flammable Point	Not Applicable
Lower Flammable Point	Not Applicable
Auto Ignition Temperature	Not Applicable
Hazardous Combustion Products	None Known

**Explosion Data**

Sensitivity to Impact	Not Applicable
Sensitivity to Static Discharge	Not Applicable

**5.**

**Reactivity Data**

Yes	Chemical Stability
No	Incompatibility with other substances

**Conditions to avoid:**

Avoid high temperatures.  
In the presence of moisture, will form carbonic acid which may corrode some metals.

**Hazardous Decomposition Products**

None

**6.**

**Toxicological Properties**

**Route of entry**

Skin Contact	Inhalation
Eye Contact	Ingestion

Eye and Skin Cor Escaping liquid transforms to very cold solid gas (-78 Degrees C) which may cause frostbite.

**Effects of Overexposure:**

No known chronic effects to repeated exposures of low concentrations.

Exposure Limits	Not Applicable
Irritancy of Product	Not Applicable
Sensitization to Product	Not Applicable
Carcinogenicity	None
Teratogenicity	None
Reproductive Toxicity	None
Mutagenicity	None
Synergistic Products	Not Applicable

**7.**

**Preventative Measures**

Gloves	None Required
Respirator	In high concentration levels for extended length, use approved full face vapour respirator
Footwear	None Required
Clothing	None specified
Eyewear	None Required

**Engineering Controls**

Adequate ventilation or a fresh air supply at recharge station.

**Leak and Spill Procedure**

Ventilate area before entering.

**Waste Disposal**

No residual waste.

Handling Procedures	Avoid container damage
Storage Requirements	Cool dry areas not above 52 Degrees C
Special Shipping Information	Carbon Dioxide Fire Extinguisher Class 2.2 UN #1013

**8.**

**First Aid Measures**

Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration. Ensure that vomit has not obstructed airway. Obtain medical attention immediately.
Ingestion:	Maintain breathing and obtain immediate medical attention.
Eye Contact:	For frostbite rinse with warm water for 15 minutes and obtain immediate medical attention.
Skin Contact:	For frostbite, allow affected body parts to thaw. Obtain medical attention as soon as possible.

**9.**

**Preparation Date of MSDS**

Prepared by Department: Health and Safety

Date is: June 6, 2009

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