

# CO2 Fire Extinguisher

## Safety Data Sheet



### 1. Identification of the Material and Supplier

**Product Identifier:**  
CO2 Fire Extinguisher

**Recommended use of the chemical and restrictions on use:**  
Fire extinguishing agent. Vaporising gas

**Manufacturer/Supplier:**  
Antec Group Pty Ltd  
9 Chicago Avenue, NSW 2148  
**Ph:** +61 2 9622 9622  
**Emergency Ph:** 13 11 26

### 2. Hazards Identification

**Classification of the hazardous chemical**  
**Classification according to the WHS**  
**Regulations Australia and the ADG Code:**  
Classified as Dangerous – Gases under  
Pressure – Compressed Gas



**Hazard Pictograms:**

**Pictogram Code:**  
GHS04 Gas Cylinder  
**Signal Word:**  
WARNING

**Hazard Statements:**  
H280 Contains gas under pressure; may  
explode if heated

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

### 3. Composition/Information on Ingredients

**Chemical identity of ingredients:**

CarbonDioxide CO2

**Proportion of ingredients:**

100%

**CAS No.:**

124-38-9

### 4. First Aid Measures

**Eye contact (symptoms, special & medical treatment):**

No adverse effects expected from normal use of this product.

**Skin contact (symptoms, special & medical treatment):**

In the case of frostbite spray with water for 15 minutes. Apply a sterile dressing. Obtain medical assistance.

**Inhalation (symptoms, special & medical treatment):**

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility /consciousness. Victim may not be aware of asphyxiation. Under such circumstance seek immediate medical attention.

**Ingestion (symptoms, special & medical treatment):**

Not an expected route of entry.

In case of ingestion, immediately consume large amounts of water and induce vomiting. If irritation persists seek medical attention.



## 5. Fire Fighting Measures

### **Suitable extinguishing equipment:**

This preparation is an extinguishing media. Use extinguishing media suitable for surrounding area.

### **Specific hazards arising from the chemical:**

Ammonia and / or phosphorus oxides can be evolved at very high temperatures.

### **Special protective equipment and precautions for fire fighters:**

Wear breathing apparatus and protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

### **Hazchem Code:**

Not Applicable.

## 6. Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures:**

Evacuate area, ensure adequate air ventilation. Monitor oxygen levels. Wear self-contained breathing apparatus in confined spaces.

### **Environmental precautions:**

Refer Section 12

### **Methods and materials for containment and cleaning up:**

Not Applicable

## 7. Handling and Storage

### **Precautions for Safe Handling:**

- As a high-pressure vessel caution should be taken to prevent damage to cylinder
- Wear protective clothing when risk of exposure occurs
- Use in a well-ventilated area
- Do not eat, drink or smoke when handling
- Always wash hands with soap and water after handling
- Avoid physical damage to containers

### **Other Information:**

- Use good occupational work practice
- Observe manufacturer's storage and handling recommendations contained within this MSDS
- Store away from sources of heat or ignition / naked lights Store in a cool, dry, well-ventilated area
- Store in original container or fire extinguisher

### **Precautions for Safe Storage:**

- Observe manufacturer's storage and handling recommendations contained within this MSDS
- Store away from sources of heat or ignition / naked lights
- Store in a cool, dry, well-ventilated area
- Store in original container or fire extinguisher
- Keep containers securely sealed when not in use
- Do not store at temperatures exceeding 50°C



## 8. Exposure

### Occupational Exposure Limits:

TWA (8hour avg):

5,000ppm | 9,000 mg/m<sup>3</sup>

STEL (15min avg):

30,000ppm | 54,000 mg/m<sup>3</sup>

### Engineering Controls:

Check regularly for leakages.

### Personal Protective Equipment:

Eye Protection - Safety Goggles

Skin Protection: Chemical Resistance Gloves

Respiratory Protection: Ensure adequate ventilation

## 9. Physical and Chemical Properties

### Appearance (colour, physical form, shape):

Liquefied gas, colourless

**Odour:** None

**Odour threshold:** Not Applicable

**pH:** Not Applicable

**Vapour pressure:** 57.3 bar at 20 degrees C.

**Vapour density:** Gas -1.52 Liquid -1.03

**Boiling point/range:** -78.5 degrees C

**Freezing/melting point (specify which):**

-5 degrees C

**Evaporation rate:** Data not available

**Flammability:** Not Applicable

**Upper/Lower Flammability or Explosive**

**limits:** Not Applicable

**Solubility:** Not Applicable

**Relative density:** 2,000. Mg/l

**Partition coefficient (n-octanol/water):** Not Applicable

**Flash point and method of detecting flash**

**point:** Not Applicable

**Ignition temperature:** Not Applicable

**Decomposition temperature:** Not Applicable

**Viscosity:** Not Applicable

## 10. Stability and Reactivity

**Reactivity:** Refer to section 7

**Chemical stability:** Stable when stored, handled and operated in accordance with this MSDS.

**Conditions to avoid:** Refer to section 7

**Incompatible materials:** None

**Hazardous decomposition products:**

None under normal usage

## 11. Toxicology Information

### Information on Toxicological effects:

This product has not been tested for toxicological effects.

**Acute toxicity:** In High concentration may cause rapid circulatory insufficiency

**Skin corrosion / irritation:** Chilling sensation or frost bite following acute long exposure.

**Serious eye damage/irritation:** In liquid form Co2 can irritate eyes.

**Respiratory or skin sensitisation:** Transient cough, shortness of breath following acute exposure. Symptoms headache, nausea, and vomiting. Leading to Unconsciousness.

**Germ cell mutagenicity:** Data not available.

**Carcinogenicity:** Data not available.

**Reproductive toxicity:** Data not available.

**Specific Target Organ Toxicity (STOT) - single exposure:** Data not available.

**Specific Target Organ Toxicity (STOT) - repeated exposure:** Data not available.

**Aspiration hazard:** Data not available.

## 12. Ecology Information

**Ecotoxicity:** Classification not determined

## 13. Disposal Considerations

### Disposal methods and containers:

Dispose of in compliance with national, regional and local provisions that may be in force.

### Physical / Chemical Properties that may affect disposal options:

Not known

### Effects of Sewerage:

Not known

### Special precautions for landfill or incineration:

None

## 14. Transport Information

Labels Required:



2.2 Non flammable, non toxic gas

### Land Transport (ADG):

Classification as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (Ed 7.3, August 2014), National Transport Commission.

**UN Number:** 1044

**Proper Shipping Name:** FIRE EXTINGUISHERS with compressed gas or liquefied gas

**Transport hazard class:** Class 2.2

**Packing Group:** Not Applicable

**Environmental hazards for Transport**

**Purposes:** Not Applicable

**Special precautions for user:**

Special Provisions 225

**Hazchem Code:** Not Applicable

**Land Transport (ADG):**

Classification as Dangerous Goods according to the Dangerous Goods Regulations, International Air Transport Association (IATA).

**UN Number:** 1044

**Proper Shipping Name:** FIRE EXTINGUISHERS with compressed gas or liquefied gas

**Transport hazard class:** Class 2.2

**Packing Group:** Not Applicable

**Environmental hazards for Transport**

**Purposes:** Not Applicable

**Special precautions for user:**

Special Provisions A19

**Cargo Only Packing Instructions:** 213

**Passenger and Cargo Packing Instructions:** 213

**Hazchem Code:** Not Applicable

**Sea Transport (IMO - IMDG)**

Classification as Dangerous Goods according to the International Maritime Dangerous Goods

**UN Number:** 1044

**Proper Shipping Name:** FIRE EXTINGUISHERS with compressed gas or liquefied gas

**Transport hazard class:** Class 2.2

**Packing Group:** Not Applicable

**Environmental hazards for Transport**

**Purposes:** Not Applicable

**Special precautions for user:**

EMS Number F-C, S-V

Special Provisions 225

**Hazchem Code:** Not Applicable

**15. Regulation Information**

**Safety, health and environmental regulations / legislation specific for the substance or mixture:**

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

**16. Other Information**

**Revision, Date of preparation of this MSDS:**

Rev D, 07 July 2022

**Disclaimer:**

The Information contained herein is furnished without warranty either expressed or implied. This data sheet is not a part of any contract of sale. The information contained herein is believed to be correct or is obtained from sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with the federal and state guidelines and procedures for safe handling and use of these materials. Antec Group shall not be liable for any loss or damage arising directly or indirectly from the use of this product and Antec Group assumes no obligation or liabilities for reliance on the information contained herein or omissions from 27th July 2022.