

Firex Distribution (Australia) Pty Ltd
ABN 32 161 639 470

Material Safety Data Sheet

Product Name: Firex Carbon Dioxide (CO₂)
Date Revised: 17 June 2014

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Firex - CO ₂
Other Names:	CO ₂ Fire Extinguisher
Recommended Use:	The intended or recommended use of this preparation is as a fire extinguishing agent.
Supplier Name:	Firex Distribution (Australia) Pty Ltd
Address:	Unit 3, 11 Packard Ave Castle Hill NSW 2154
Telephone Number:	+612 9680 8811
Emergency Number:	+612 9680 8811 or 000

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification:	Class 2 Sub Class 2
Risk Phrase(s):	NA
Safety Phase(s):	NA

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance	
Chemical identity of the pure substance:	CO ₂
Common name(s), synonym(s):	Carbon Dioxide
CAS Number(s):	124-38-9

SECTION 4 - FIRST AID MEASURES

Eye contact (symptoms, special & medical treatment):	No adverse effects not expected from normal use of this product.
Skin contact (symptoms, special & medical treatment):	In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. Chronic overexposure can lead to cold burns. Seek medical advice under such circumstances.
Inhalation	In high concentrations may cause asphyxiation. Symptoms may include

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(symptoms, special & medical treatment):	loss of mobility/consciousness. Victim may not be aware of asphyxiation. Under such circumstance seek immediate medical attention. Low concentrations of CO2 cause increased respiration and headache. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Keep victim warm and rested and seek immediate medical attention. Apply artificial respiration if breathing is stopped.
Ingestion (symptoms, special & medical treatment):	Not an expected route of entry.
Aggravated medical conditions caused by exposure:	None known.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media:	This preparation is an extinguishing media.
Hazards from combustion products:	None.
Special protective precautions and equipment for fire fighters:	In confined space use self-contained breathing apparatus.
Hazchem Code:	2TE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Emergency procedures:	Evacuate area. Ensure adequate air ventilation. Monitor oxygen levels. Wear self-contained breathing apparatus in confined spaces.
Methods and materials for containment and clean up:	Not Applicable.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Handle in well ventilated areas. As it is a high pressure vessel caution should be taken to prevent damage to cylinder.
Conditions for safe storage, including	Store in dry, cool and well-ventilated areas. Store away from direct sunlight, heat and ignition sources.

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any incompatibilities:	Store away from combustible materials. Do not expose to temperatures exceeding 50°C. Cylinders should be stored in a vertical position and secured to prevent toppling.
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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards:	Not Available.
Biological limit values:	Carbon dioxide: ILV (EU) – 8H – (mg.m ³) : 9,000 Carbon dioxide: ILV (EU) – 8H (ppm) : 5,000 Carbon dioxide: TLV© – TWA (ppm) : 5,000 Carbon dioxide: TLV© – STEL (ppm) : 30,000
Engineering controls:	Check regularly for leakages.
Personal protective equipment:	Eye protection - safety goggles. Skin protection - protective gloves. Respiratory protection – ensure adequate ventilation

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (colour, physical form, shape):	Liquefied gas. Colourless.
Odour:	None.
pH:	Not Applicable.
Vapour pressure:	57.3 bar at 20°C
Vapour density:	Gas - 1.52 (air=1) Liquid – 1.03 (water=1)
Boiling point/range:	-78.5°C
Freezing/melting point (specify which):	-56.6°C
Solubility (specify solvent, e.g. water):	2,000 mg/l
Specific gravity or density:	Not Applicable.
Flash point and method of detecting flash point:	Not Applicable.
Upper and lower flammable (explosive) limits in air:	Not flammable.
Ignition	Does not ignite.

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temperature:

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability:	Stable
Conditions to avoid:	None.
Incompatible materials:	None.
Hazardous decomposition products:	None under normal storage and use.
Hazardous reactions:	None.

SECTION 11 - TOXICOLOGICAL INFORMATION

Eye contact:	In liquid form CO2 can cause an irritating sensation to the eyes.
Skin contact:	In circumstances of prolonged exposure can cause chilling sensation even frost bite.
Inhalation:	In high concentrations may cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.
Ingestion:	Not an expected route of entry.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	Not determined.
Persistence and degradability:	Not determined.
Mobility:	Not determined.
Environmental fate (exposure):	In extreme cases, when discharged in large quantities may contribute to greenhouse effect.
Bioaccumulative potential:	Not determined.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods and containers:	Dispose of in compliance with national, regional and local provisions that may be in force.
Special precautions for landfill or incineration:	None.

SECTION 14 - TRANSPORT INFORMATION

UN Number:	1044
UN Proper Shipping Name:	Fire extinguishers containing compressed or liquefied gas

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Class and subsidiary risk:	2.2
Packing Group:	Packing Group II
Special precautions for user:	None.
Hazchem Code:	2TE

SECTION 15 - REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation:	Not available.
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SECTION 16 - OTHER INFORMATION

Date of preparation or last revision of the MSDS:	Rev B, 17 June 2014
Disclaimer	The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Firex Distribution (Australia) Pty Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

End MSDS