

SAFETY DATA SHEET FOR CO₂ FIRE EXTINGUISHERS

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
Chemical Name:	CARBON DIOXIDE GAS (CO ₂)
Trade Name:	CO ₂ FIRE EXTINGUISHERS
Manufacturer:	MOBIK S.A.
Address:	Kathiana Akrotiriou, Chania, PC 73100, Crete, Greece
Email:	info@mobiak.com
	www.mobiak.com

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS	
CAS Number	124-38-9
Content	CARBON DIOXIDE GAS (CO ₂) >99%

SECTION 3: HAZARD IDENTIFICATION	
Emergency Overview:	Carbon Dioxide is colorless. At low concentrations, the gas is odorless. At higher concentrations it has a sharp, acidic odor. It will act as an asphyxiant and an irritant. Carbon Dioxide is a powerful cerebral dilator. At concentrations between 2 and 10%, Carbon Dioxide can cause nausea, dizziness, headache, mental confusion, increased blood pressure and respiratory rate. Above 8% nausea and vomiting appear. Above 10%, suffocation and death can occur within minutes. Contact with the cold gas can cause freezing of exposed tissue. Moisture in the air can lead to formation of carbonic acid that can irritate the eyes. All forms of Carbon Dioxide are noncombustible. Carbon Dioxide is heavier than air and should not be allowed to accumulate in low lying areas.
Inhalation:	May Cause Rapid Respiration, Muscular Incoordination, Fatigue, Nausea and Vomiting and Unconsciousness.
Ingestion:	No Information Found
Skin Contact:	Pressure drop Through Valves and Piping may Cause Extreme Cold and Frostbite on Contact
Eye Contact:	No Information Found
Chronic Exposure:	No Information Found

SECTION 4: FIRST AID MEASURES	
Inhalation:	Immediately Remove Victim to Fresh Air. If Breathing has Stopped, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen and Get Medical Attention.
Ingestion:	No Information Found
Skin:	If Frostbite Occurs, Flush Affected Areas with Lukewarm Water. Do Not Use Hot Water. Get Medical Attention
Eyes:	No Information Found

SECTION 5: FIRE FIGHTING MEASURES

Fire:	Not Considered to be a Fire Hazard. Non-Flammable Gas.
Explosion:	Not Considered to be an Explosion Hazard. Cartridge Rupture may Occur Under Fire Conditions. Use What is Appropriate for Surrounding Fire.
Fire Extinguishing Media:	In the Event of Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Face piece Operated in the Pressure Demand or Other Positive Pressure
Special Information:	Keep FIRE EXTINGUISHERS Cool with Water Spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 7. Shut Off Source if Possible and Remove Source of Heat. Remove Leaking Cylinder to Exhaust Hood or Safe Outdoor Area if This can be Done Safely.

SECTION 7: HANDLING AND STORAGE

Store in well Ventilated Areas and Away from Heat. Protect Containers from Physical Damage. Do Not Deface Cylinders or Labels. Cylinders should be Refilled by Qualified Producers of Compressed Gas.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation System:	A System of Local and/or General Exhaust is Recommended to Keep Employee Exposures Below the Airborne Exposure Limits. Local Exhaust Ventilation is Generally Preferred Because it can Control the Emissions of the Contaminant at its Source, Preventing Dispersion of it into the General Work Area.
Airborne Exposure Limits:	ACGIH Threshold Limit Value (TLV), 5000 ppm, OSHA (PEL) 5000 ppm, (STEL) 30,000.
Personal Respirators:	Use a Self-Contained Breathing Apparatus in Case of Emergency or Non-Routine Use.
Skin Protection:	Loose Fitting Gloves or Impermeable Material, Such as Leather, When Working with Cold Liquid, Solid or Vapor.
Eye Protection:	Use Safety Glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor:	Colorless / Odorless
Solubility:	87.8 @ 68 OF (v/v) in water.
Density	Gas
pH:	No Information Found
%Volatiles by Vol.:	No Information Found
Melting Point:	No Information Found
Boiling Point:	Sublimes - 109.3 OC
Vapor Density (Air=1):	1.53
Vapor Pressure (mmHg):	816 psig @ 20 °C

SECTION 10: STABILITY AND REACTIVITY

General Reactivity:	Stable Under Ordinary Conditions of Use and Storage.
Hazardous Decomposition:	Toxic Carbon Monoxide may be Given Off During Combustion.
Incompatibilities:	Temperatures above 3,092 OF (1,700 OC). This Weakly Acidic Material will React with Alkaline Materials to Form Carbonates and Bicarbonates.
Hazardous Polymerization:	Will Not Occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenic References:	NTP Carcinogen - Known: No, IARC Category- None
Aggravated by Exposure:	Exposure to Carbon Dioxide at 1 to 4% Concentrations Result in Increased Respiratory Volume. Material acts as a Simple Asphyxiant by Displacing Air Necessary for Life.

SECTION 12: ECOLOGICAL INFORMATION

No Information Found.	
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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of Non-Refillable Cylinders in Accordance with Federal, State and Local Regulations. Allow Gas to Vent Slowly to Atmosphere in an Unconfined Area or Exhaust Hood. If the Cylinders are the Refillable Type, Return Cylinders to Supplier with any Valve Outlet Plugs or Caps Secured and Valve Protection Caps in Place.

SECTION 14: TRANSPORT INFORMATION

Shipping Name:	FIRE EXTINGUISHER WITH COMPRESSED OR LIQUEFIED GAS
Hazard Class:	2.2 (NON-FLAMMABLE GAS)
Identification No.:	UN1044

SECTION 15: REGULATORY INFORMATION

WHMIS Classification:	A
DSL Status:	Appears on DSL.

SECTION 16: OTHER INFORMATION

NFPA Rating:	HEALTH-1, FLAMMABILITY-0, REACTIVITY-0
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