

CARBON DIOXIDE (CO₂) FIRE EXTINGUISHER



FCO-055 → FCO-057

CO₂ FIRE EXTINGUISHER

CO₂ FIRE EXTINGUISHER FUNCTION

The CO₂ Extinguisher Cannisters contain carbon dioxide in liquid form, and when the extinguisher is let off the liquid is released into the air neutralising the oxygen that the fire is feeding on, disabling the fires ability to spread. This is an effective way to put out fires and also prevent fire from reoccurring because of the lack of oxygen and the ice cold temperature of the CO₂ when released from the extinguisher.

Carbon Monoxide is suitable for use on both Electrical and Flammable Liquid (Class B) Fire types. Being a gas it is completely harmless to electrical equipment.

Ideal for offices, workshops or any premises that uses electrical equipment.

ACCIDENTAL RELEASES MEASURES

Personal precautions: evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is provided to be safe. Ensure adequate are ventilation.

Environmental precautions: Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Clean up methods: Ventilate area.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protection: ensure adequate ventilation.

HAZARD IDENTIFICATION

Liquefied gas. High concentration may cause asphyxiation.

ECOTOXICOLOGICAL INFORMATION

Ecological effects information: when discharged in large quantities may contribute to the greenhouse effect.

GLOBAL WARMING POTENTIAL (CO₂=11): 1

DISPOSAL CONSIDERATION

General: do not discharge into any place where it accumulation could be dangerous. To atmosphere in a well ventilated place. Discharge to atmosphere in large quantities should be avoided. Contact supplier if guidance is required.

FIRE FIGHTING MEASURES

FLAMMABLE CLASS	Non flammable
SPECIFIC HAZARDS	Exposure to fire may cause containers to rupture / explode
HAZARDOUS COMBUSTION PRODUCTS	None
EXTINGUISHER MEDIA - SUITABLE EXTINGUISHER MEDIA	All known extinguisher can be used
SPECIFIC METHOD	If possible, stop flow of products
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS	In confined space use self-contained breathing apparatus

FIRST AID MEASURES

INHALATION	In high concentration may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation. Low concentration of CO ₂ cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
SKIN/EYE CONTACT	Immediately flush eyes thoroughly with water for at least 15 min. in case of frostbite spray with water for at least 15 min. apply a sterile dressing. Obtain medical assistance.
INGESTION	INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

COMPOSITION/ CLASSIFICATION

CHEMICAL NAME	Carbon Dioxide	CAS NO	124-38-9
CHEMICAL FORMULA		QUOTA %	>=99.7%

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PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AT 20°C	LIQUID GAS
COLOUR	COLOURLESS
ODOUR	NON
MOLECULAR	44
MELTING POINT [°C]	-56.6
BOILING POINT [°C]	-78.5
CRITICAL TEMPERATURE [°C]	30
VAPOUR PRESSURE [200C]	57.3 BAR
RELATIVE DENSITY, GAS (AIR=1)	1.52
RELATIVE DENSITY, LIQUID (WATER=1)	0.82
SOLUBILITY IN WATER [MG/L]	2000
FLAMMABILITY RANGE [VOL% IN AIR]	NON FLAMMABLE

OTHER DATA: GAS/VAPOUR HEAVIER THAN AIR. MAY ACCUMULATE IN CONFINED SPACES, PARTICULARLY AT OR BELOW GROUND LEVEL.

TRANSPORT INFORMATION

ADR RID	IMDG	DGR (FLYG)
UN NR: 1044	UN NO: 1044	CLASS:
CLASS: 2	CLASS: 2.2	CO ₂ FIRE EXTINGUISHER
AMNESNR: 6A	EMS NO: 2-13	
ETIKETNR: 2/LQ	MFAG NO: 620	
	PACKAGING GROUP	

REGULATORY INFORMATION

EC CLASSIFICATION	NOT CLASSIFIED AS DANGEROUS PREPARATION/SUBSTANCE. NOT INCLUDED IN ANNEX 1
EC LABELLING	NO EC LABELING REQUIRED
SYMBOL(S)	NONE
R PHRASE(S)	NONE
S PHRASE(S)	NONE

OTHER INFORMATION

Asphyxiate in high concentrations. Keep container in a well-ventilation place. Do not breathe the gas. Contact liquid may cause cold burns/ frostbite. Ensure all national/local regulations are observed. The hazard of Asphyxiate is often overlooked and must be stressed during operator training. Sources of key data used: EIGA (European industrial gases association) / LISAM. This safety data sheet has been established in accordance with the applicable European directives and applies to all countries that have translated the directives in their national laws. Before using this product in any new process or equipment, a thorough material compatibility and safety study should be taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

HANDLING AND STORAGE

Below 50oC, dry and free from vibrations. Handling: such back of water into the container must be prevented. Do not allow back feed into the container. Use only properly specified equipment which is suitable for the product, its supply pressure and temperature. Contact you gas supplier if in doubt. Refer to supplier's container handling instructions.

TOXICOLOGICAL PROPERTIES

Toxicity information: in high concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconscious