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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER: **CARBON DIOXIDE – INERT GAS MIXTURE***

Product Name(s):
CARBON DIOXIDE – INERT GAS MIXTURE*
Synonym(s): RICHMIX 202, 208, 210, 212,
RICHMIX 215, 218, 220, 225
PRODUCT USE(S): INERT SHIELDING FOR WELDING

Formula:
BLEND OF CARBON DIOXIDE IN ARGON
Chemical Family: NOT APPLICABLE
W.H.M.I.S. Classification Class(es): A

HAZARDOUS INGREDIENTS:

INGREDIENT PARAMETERS	C.A.S. / P.I.N. NUMBER(S)	CONC. % VOL./VOL.	L.D. 50 (Species & Route)	L.C. 50 (Species & Route)
CARBON DIOXIDE	124385/1013	1 TO 30%	NOT APPL.	LCLo 90%/5min(inhl-man)
ARGON	7440371/1006	70 TO 99%	NOT APPL.	NOT APPL.

PHYSICAL DATA

PHYSICAL STATE:	Gas @ N.T.P.
ODOUR AND APPEARANCE:	Colourless and Odourless.
ODOUR THRESHOLD:	Not available
SPECIFIC GRAVITY (air=1):	>1(AIR=1) (please refer to the M.S.D.S. of the components)
VAPOUR PRESSURE:	Container rated pressure
VAPOUR DENSITY (air=1):	>1(AIR=1) (please refer to the M.S.D.S. of the components)
EVAPORATION RATE:	Rapid
BOILING POINT:	Not available for this blend (please refer to the M.S.D.S. of the components)
FREEZING POINT:	Not available for this blend (please refer to the M.S.D.S. of the components)
pH:	Not Applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not Applicable
SOLUBILITY IN WATER:	Not available for this blend (please refer to the M.S.D.S. of the components)
% VOLATILES:	100

FOR TRANSPORT EMERGENCY CALL COLLECT CANUTEC TEL: 1-613-996-6666

UYI 202-2

FIRE OR EXPLOSION HAZARDS

CONDITIONS OF FLAMMABILITY:	None
MEANS OF EXTINCTION:	Cool containers with water spray. Extinguish surrounding fires.
FLASH POINT:	NONE
UPPER FLAMMABLE LIMIT: NONE	LOWER FLAMMABLE LIMIT: NONE
AUTOIGNITION TEMPERATURE:	NONE
HAZARDOUS COMBUSTION PRODUCTS:	NONE
SENSITIVITY TO MECHANICAL IMPACT:	NONE
SENSITIVITY TO STATIC DISCHARGE:	NONE
SPECIAL PROCEDURES:	Evacuate areas where a leak or a spill is present. Fight the surrounding fires at the case may be. Escaping Carbon Dioxide may displace air. Ensure appropriate air supply when approaching or entering the area. Containers may rupture if subject to localized heating.

REACTIVITY DATA

CONDITIONS OF CHEMICAL UNSTABILITY:	NONE
INCOMPATIBILITY:	NONE
CONDITIONS OF REACTIVITY:	CO ₂ may corrode iron and other metals in presence of moisture. (as Carbonic Acid)
HAZARDOUS DECOMPOSITION PRODUCTS:	NONE

TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	
SKIN (CONTACT):	NO
SKIN (ABSORPTION):	NO
EYE CONTACT:	YES
INHALATION:	YES
INGESTION:	NO

EFFECTS OF ACUTE EXPOSURE:

May displace air in enclosed spaces. CO₂ concentrations 3 to 5% (in the air) may increase the rate of respiration. At concentrations of 8 to 15% (in the air) cause headache, nausea, vomiting, unconsciousness. Higher concentrations may cause coma and death.

EFFECTS OF CHRONIC EXPOSURE: NONE KNOWN

EXPOSURE LIMITS:	CO ₂	T.L.V./T.W.A. 5,000 ppm. S.T.E.L. 30,000 ppm.
IRRITANCY:		May cause sharp sensation of irritation to the nose membranes.
SENSITIZATION:		NONE
CARCINOGENICITY:		NONE
REPRODUCTIVE TOXICITY:		NONE
TERATOGENICITY:		NONE
MUTAGENICITY:		NONE
TOXIC SYNERGISTIC PRODUCTS:		NONE

FIRST AID

EYE: Gas may harm the unprotected eye if delivered at pressures higher than atmospheric. Obtain medical attention if damages are suspected or present.

INGESTION: Not applicable

INHALATION: Move victim to fresh air if possible. Administer C.P.R. If breathing has stopped. If breathing is difficult give oxygen. Obtain medical attention.

SKIN: Not applicable.

PREVENTIVE MEASURES

PERSONAL PROTECTION

EYE: Safety glasses or goggles to protect from accidental leaks under pressure.

HAND: Work gloves.

FEET: Safety footwear where applicable.

CLOTHING: Long sleeves, trousers recommended.

RESPIRATOR: Not applicable

ENGINEERING CONTROLS: Provide good ventilation. Carbon Dioxide is heavier than air and may displace air in work areas. Ventilation should be designed to maintain CO₂ concentrations below the T.L.V..

SPILL AND LEAK PROCEDURE:

Shutoff the source if without risk . Use SCBA to enter confined spaces. Monitor for CO₂ concentration and oxygen concentration prior to re-entry. Gas will dissipate depending on site/area ventilation.

WASTE DISPOSAL:

Do not discard empty cylinders, Return the cylinder where applicable. Waste cylinders may have to be disposed in accordance to Federal, Provincial and Municipal requirements.

HANDLING PROCEDURES & EQUIPMENT:

Use in well ventilated areas. Keep container upright when in use. Keep away from flames, electrical sparks. Use appropriate carts for moving containers. Secure container when in use. Close the container valve when NOT in use, or when empty. Secure (restrain) during transportation or use. Use backflow preventive devices (checkvalves) piping & tubing to avoid suckbacks. Protect container valves when not in use.

STORAGE REQUIREMENTS:

Store in well ventilated areas. Keep away from open flames, heat. Store at temperatures below 52°C (125°F).

SPECIAL SHIPPING INFORMATION:

Transport upright in well-ventilated vehicle. Do not transport in trunk of enclosed vehicle. Commercial (cylinders) quantities may NOT be transported in passenger compartments.

T.D.G. SHIPPING NAME: COMPRESSED GAS N.O.S. T.D.G. CLASSIFICATION CLASS(ES): 2.2

T.D.G. P.I.N. / U.N. : 1956

PREPARED BY: Josef Gas
TEL: (416) 658-1212

EFFECTIVE DATE: JANUARY 1 2016