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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER: **OXYGEN – INERT GAS MIXTURE**

Product Name(s): OXYGEN-INERT GAS MIXTURE

Formula: BLEND OF OXYGEN IN ARGON

Synonym(s): RICHMIX 101, 102, 108

Chemical Family: N/A

PRODUCT USE(S): INERT SHIELDING FOR WELDING

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)
OXYGEN	7782447/1072	1 TO 10%	NOT APPL.	NOT APPL.
ARGON	7440371/1006	90 TO 99%	NOT APPL.	NOT APPL.

PHYSICAL DATA

PHYSICAL STATE:	Gas @ N.T.P.
ODOUR AND APPEARANCE:	Colourless and Odourless
ODOUR THRESHOLD:	NONE
SPECIFIC GRAVITY :	>1 (AIR =1)(please refer to the MSDS of the components)
VAPOUR PRESSURE:	Container Rated Pressure
VAPOUR DENSITY:	>1 (AIR =1)(please refer to the MSDS of the components)
EVAPORATION RATE:	Rapid
BOILING POINT:	Not available for this blend (please refer to the MSDS of the components)
FREEZING POINT:	Not available for this blend (please refer to the MSDS of the components)
pH:	Not Applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not Available
SOLUBILITY IN WATER:	Not available for this blend (please refer to the MSDS of the components)
% VOLATILES:	100

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

FIRE OR EXPLOSION HAZARDS

CONDITIONS OF FLAMMABILITY:	NONE. Oxygen may support and sustain combustion of other materials.		
MEANS OF EXTINCTION:	Cool containers with water spray. Extinguish surrounding fire(s).		
FLASH POINT:	NONE		
UPPER FLAMMABLE LIMIT:	NONE	LOWER FLAMMABILITY 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 surrounding fires as the case may be. Containers may rupture if subject to localized heat.		

REACTIVITY DATA

CONDITIONS OF CHEMICAL UNSTABILITY:	NONE
INCOMPATIBILITY:	NONE
CONDITIONS OF REACTIVITY:	NONE
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:	Exposure to the above blend may cause suffocation since the oxygen content may be insufficient to sustain life. Symptoms may include: nausea, dizziness, unconsciousness, convulsions, coma and death. Such effects would be a function of the extent of the exposure.
EFFECTS OF CHRONIC EXPOSURE:	NONE KNOWN
EXPOSURE LIMITS:	Maintain oxygen concentration above 18%.
IRRITANCY:	NONE
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.
INGESTION: Not applicable.
INHALATION: Move the victim to fresh air if possible. Administer C.P.R. if breathing has stopped. If breathing is difficult, administer oxygen. Obtain medical attention.
SKIN: Obtain medical attention.

PREVENTIVE MEASURES

PERSONAL PROTECTION

EYE: Safety glasses or goggles to protect eyes from gas under pressure.
HAND: Work gloves
FEET: Safety footwear where applicable.
CLOTHING: Long sleeves, trousers recommended.
RESPIRATOR: Not applicable where oxygen concentration is kept above 18%.

ENGINEERING CONTROLS: Provide ventilation. Keep oil, grease, combustible materials away.

SPILL AND LEAK PROCEDURE: Leave danger area. Try to stop the leak at source if without risk. Gas will dissipate depending on the site/area ventilation. Verify oxygen concentration prior to re-entry.

WASTE DISPOSAL: No wastes may be generated other than empty containers. Return empty containers as the case may be. Disposal of waste containers must be done in accordance with Federal, Provincial and Municipal regulations.

HANDLING PROCEDURES & EQUIPMENT: Use in ventilated areas. Keep away from Oil, Grease, Combustible, Flammable materials. Use appropriate carts for moving containers. Secure container when in use. Close the container valve when NOT in use, or when empty. Keep away from heat, flames, sparks.

STORAGE REQUIREMENTS: Store in well ventilated areas. Keep away from sources of ignition. Keep containers upright. Store at temperature below 52°C.

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. Secure containers during transportation and ensure that valve protection is in place.

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