

METRIAL DATA SHEET TRI MIX (83% ARGON + 15 % CO₂ + 3 % O₂)

1	Identification of the substance/preparation and of the company/undertaking						Storage: Keep container in a well-ventilated area. Store				
	Product name: TRI MIX (83% ARGON + 15 % CO2 + 3					3 % O2)	cylinder below 50°C				
	Use of substan	ice:	General	Industrial	trial		See reverse for further handling, usage and storage guidelines				
			Rakeeth Industrial Gases Co LLC 483/1 Street Al Sajaa Industrial area Sharjah, UAE				8 Exposure controls/personal protection				
							Exposure limits:		Carbon dioxide TWA: EH4O OES 5,000 ppm Carbon dioxide STEL: EH4O OES 15,000 ppm		
			0565264603				Carbon dioxide TWA: EU ELV 5,000 ppm Personal protection: Ensure adequate ventilation				
E	Emergency contact: 997 CIVIL DEFENCE UAE						9 Physical and chemical properties				
2	Composition/information on ingredients						Form: Compressed gas				
Comp	ponents EIN	NECS/E	LINCS	CAS	Concentration	Class		Colour:	Colourless gas	3	
Oxyge	en 23	1-956-	9	7782-44-7	2%	0 R8		Odour:	Odourless gas	i	
Carbo	Carbon Dioxide 204-69		6-9 124-38-9		15%		Molecular weight:		39.88 g/mol		
	Argon 231-14							Vapour density:	1.38 (air - 1)		
Argor			7-0 7440-37-1		83%			Density:	1.6678 g/cm ₃ a		
3	Hazards ide	entific	ation				S	pecific volume:	0.5993 m₃/kg a	at 21°C	
	Classific	ation:	R00 There are no known health hazards					Boiling point:	-125.5°C	25.5°C	
				High pressure compressed gas			١	Vater solubility:	nsidered to have low solubility		
	Emergency Overview: High pressure compressed gas High concentrations may cause asphyxiation						10 Stability and reactivity				
4	4 First aid measures						Chemical stability: Stable under normal conditions				
	Inhalation: Remove victim to fresh air wearing self-contained						Hazardous decomposition products: None				
	breathing apparatus. Keep victim warm and rested. Apply artificial respiration if breathing has stopped. In case of						11 Toxicological information No known toxicological effects from this product				
	shortness of breath, give oxygen. Call a doctor. Ingestion: Ingestion is not considered a potential route of exposure						12 Ecological information No known ecological effects from this product				
5	Fire-fighting measures						13 Disposal considerations				
Ex	Extinguishing media:		All known extinguishing media can be used.				Return cylinders to the supplier (used and unused)				
	Specific hazards:		Upon exposure to intense heat or flame,				14 Transport Information				
				cylinder will vent rapidly or rupture violently. Product is non-flammable and does not support				Proper Shipping Name: Compressed gas, N.O.S. (Argon, Carbon Dioxide, Oxygen)			
			combustion. Move away from container and cool with water from a protected position. Keep					UN ID n	o.: UN1956		
	containers and surroundings cool with water						Labelling AD	A: 2.2: Non-fla	ammable, nontoxic gas		
Dect	spray. Protective equipment: Wear self-contained breathing apparatus for fire						ADR/RID hazard ID no.: 20				
Prot	Protective equipment: Wear self-contained breat fighting if necessary.				reatning apparatu	atning apparatus for fire		Labellin	ng:		
6	Accidental	releas	e measu	res	SLI				NON-FLAM		
	Personal precautio		and ventilate the area. Unless atmosphere						GAS 2	sed , O	
is sate, apparatus					wear self-contained breathing us.			urther information	Avoid transport on vehicles where the load		
Envir	Environmental precautions			Try to stop release. Prevent from further				space is not separated from the driver's compartment. Ensure vehicle driver is aware			
				•	do so. Do not d	lischarge			of potentia	al hazards of the load and knows	
_			into low areas (e.g., basements)				what to do in the event of an accident or an emergency.				
7	المحمط ا	ing :		ndling and sto	-	food into			energency		
	Handling: Open valve slowly. Do not allow backfeed into the container. Do not remove safety labels. Always use with specified equipment fit for purpose						Before transporting gas cylinders 1. Ensure that cylinders are secured				
Squipii							2. Ensure cylinder valves are closed				

- 2. Ensure cylinder valves are closed
- 3. Ensure cylinder shroud is secure
- 4. Ensure there is adequate ventilation

15 Regulatory information

Labelling according to EEC directive Number in Annex I of Dir: Not included in Annex I. 67/548

16 Other information

Ensure all national and local regulations are observed. R-phrase(s) Substance/preparation: R00 There are no known health hazards. Components: 0 R8 Contact with combustible material may cause fire. Components prepared 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.

Disclaimer of Liability:

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

Additional storage, usage & handling advice

Guidance for storing gas cylinders

• Store cylinders in a well-ventilated covered area, preferably outside on a level, well-drained surface. If this is not reasonably practicable, store in an adequately ventilated building or part of a building specifically reserved for this purpose

- · Full and empty cylinders should be stored separately
- Cylinder stocks should be rotated so that the oldest cylinders are used first
- Cylinders should be stored vertically and securely fastened to prevent them from falling over
- Segregate cylinder by properties of gas
- Flammable Oxidising Inert etc.
- Ensure that gas cylinder valves are kept shut on empty cylinders
- Avoid storing gas cylinders so that they stand or lie in water Oxygen must
- be stored away from oil or grease

Protect gas cylinders from external heat sources that may adversely affect their mechanical integrity

Gas cylinders containing flammable gas should not be stored in part of a building used for other purposes

- Do not store other products in a cylinder store, in particular flammable
- materials such as fuel, oil, paint or corrosive liquids
- Gas cylinders must be clearly marked to show what they contain and the hazards associated with their contents
- Store cylinders where they are not vulnerable to hazards caused by impact from vehicles such as fork-lift trucks
- Do not store LPG cylinders within three metres of other gas cylinders The use of a firewall reduces the distance to 1.5 meters

. There are specific requirements for certain products. Storage of cryogenic, liquefied (e.g., Propane) and heavier than air compressed gases should be sited with due regard to the dangers of gases collecting in low-lying areas such as drains, basements and ducts.

.It is advisable to label your storage area with relevant hazard labels and colour code chart.

Guidance for handling gas cylinders

• When required, wear suitable safety shoes and other personal protective equipment when handling gas cylinders

- · Carry cylinders close to your body to reduce stress on your back
- Gas cylinders should not be raised or lowered on the forks of lift trucks unless precautions are taken to prevent them from falling
- It is advisable to use a trolley if moving several cylinders to reduce risk of injury
- Do not drop, roll or drag gas cylinders
- Do not attempt to lift cylinders if they are located in a position where you
- have to lean over or stretch to carry them, this can cause back strain • Use the correct techniques for lifting heavy objects
- Ensure that the valve is protected by a shroud that has been designed to withstand impact if the cylinder is dropped

• Fit suitable protective caps and covers to cylinders, when necessary, before transporting. Caps and covers help prevent moisture and dirt from gathering in the valve of the cylinder, in addition to providing protection during transport

Guidance for using gas cylinders

• Use gas cylinders in a vertical position, unless specifically designed to be used otherwise

- Always double check that the gas is the right one for the intended use
- Before connecting a gas cylinder to equipment, make sure that the regulator and pipework are suitable for the type of gas and pressure being used
- When not in use, disconnect regulators and hoses from cylinders whenever
 practicable
- Do not use gas cylinders for anything other than the transport and storage of gas

Only use cylinders filled by a reputable gas company who fills and tests cylinders regularly in accordance to regulations. Only ever return empty gas cylinders to the supplier from which they were purchased.

Industrial Gases