## Air Material Safety Data Sheet

ISSUE DATE	01 March 2016	TRADE NAME AND SYNONYMS Air ; Compressed Air; Compressed Air , Breathing Quality	CHEMICAL NAME AND SYNONYMS Air
REVISIONS	V1-02.2016	FORMULA Reconstituted air - approx. 79% N <sub>2</sub> , 21% O <sub>2</sub> Compressed - 78% N <sub>2</sub> , 21% O <sub>2</sub> Balance: Other atmospheric gases	CHEMICAL FAMILY N/A (Air does not have a CAS #)

- <del> </del>	Datance : Other	authosphieric gases	<del></del>					
<del></del>	HEALTH	HAZARD DATA	<del></del>	<del></del>				
EXPOSURE LIMITS								
Air is nontoxic and no exposure limits have been established. Air is not listed as a carcinogen by NTP , IARC or OSHA.								
SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED								
Air is nontoxic and is necessary to support life. Inhalation of air at high pressures , such as pressures which may exist in								
hyperbaric chambers , can result in similar symptoms to those exposure to oxygen. Inhalation of air at high pressures can								
also result in accumulation of nitrogen in the blood which may result in decompression sickness.								
TOXICOLOGICAL PROPERTIES								
Exposure to high pressures of air where the partial pressure of oxygen is in excess of two atmospheres may produce a variety								
of central nervous system manifestations including tingling of fingers and toes, visual and acoustical disturbances, abnormal								
sensations , impaired coordination , confusion , muscle twitching , and epileptiform seizures. Severe hazards may be present								
when confusion and impaired judgement lead to operational errors. Exposure to high pressures may result in nitrogen narcosis.								
RECOMMENDED FIRST AND T	FREATMENT							
Facilities at which air is breathe	d under pressure should be pre	epared to deal with illness related to hyp	erbaric enviro	nment.				
Decompression equipment may								
FIRE AND EXPLOSION HAZARD DATA								
FLASH POINT (Method Used)	AUTO IGNITION TEMP	FLAMMABLE LIMITS	LEL	UEL				
N/A	N/A	Non-flammable	N/A	N/A				
EXTINGUISHING MEDIA		ELECTRICAL CLASSIFICATION GROUP						
N/A		N/A						
SPECIAL FIRE FIGHTING PRO	CEDURES							
V/A				<u> </u>				
JNUSUAL FIRE AND EXPLOS								
compressed air at nigh pressure		materials which are combustible at atm	ospheric pres	sure.				
	PHYS	ICAL DATA						
BOILING POINT (°F)		FREEZING POINT (°F)						
② 1 atm - 317.9F (-194.4C)		Range : -351F to -358F (-213C to -216C)						
		Because air is a mixture.						
/APOR PRESSURE (psia)		SOLUBILITY IN WATER						
WA	ODEOUEIG OD 4 ***	@ 68F (20C) , 1 atm 1.87% by volume						
/APOR DENSITY (lb/cu ft)	SPECIFIC GRAVITY (AIR = 1)	LIQUID DENSITY (ib/uc ft)  @ boiling point , 1 atm 54.56	SPECIFIC GRAVITY (H2O=1)					
APPEARANCE AND ODOR	0 68F (20C) , 1 atm 0.07520 @ 68F (20C) , 1 atm 1.00		@ boiling point , 1 atm 0.874					
	iorlogo							
aseous gas is colorless and or	JUHESS.							

OTHER RECOMMENDATIONS OR PRECAUTIONS

Compressed gas cylinders should not be refilled except by qualified producers of a compressed gases.

<u> </u>			<del></del>						
			F	REACT	IVITY DATA				
STABILITY	UNSTABLE			CONDITIONS TO AVOID					
Inert	nert STABLE X		Х	Avoid the use of oil in systems at full cylinder pressure.					
INCOMPATIBILITY (N	Vaterials to	avoid)		HAZARDOUS DECOMPOSITION PRODUCTS					
None	None				None				
HAZARDOUS	S MAY OCCUR			CONDITIONS TO AVOID					
POLYMERIZATION WILL NOT OCCUR X Nor				None	None				
SPILL OR LEAK PROCEDURES									
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED									
No hazard									
WASTE DISPOSAL N	/IETHOD								
Do not attempt to dispose residual air in compressed gas cylinders. Return with the cylinder valve tightly closed , positive									
pressure in the cylinders , and valve cap in place.									
SPECIAL PROTECTION INFORMATION									
RESPIRATORY PROTECTION (Specify Type)									
None									
VENTILATION		LOCAL EXHAUST			SPECIAL				
None		None			None				
	i	MECHANICAL (General)		eral)	OTHER				
		None			None				
PROTECTIVE GLOVES									
Leather work gloves a	re recomn	nended when	handling	compres	sed gas cylinders.				
EYE PROTECTION									
Safety glasses are rec			ling high-	pressure	cylinders.				
OTHER PROTECTIVE	E EQUIPM	ENT							
Safety toe shoes are recommended when handling high-pressure cylinders.									
			SPE	CIAL P	RECAUTIONS *				
SPECIAL LABELLING	INFORM/	ATION							
DOT Shipping Name : Air , Compressed DOT Hazard Class : Non-flammable Gas									
DOT Shipping label : Non-flammable Gas. I.D. number : UN 1002									
SPECIAL HANDLING RECOMMENDATIONS									
Compressed gas cylinders contain gas with extremely high pressure and should be handled with care. Use a pressure-									
reducing regulator when connecting to lower pressure equipment and piping systems. Secure cylinders when in use. Never									
use direct flame to heat a compressed gas cylinder. Use a check valve to prevent backflow into storage container. Avoid									
dragging , rolling or sliding cylinders , even for a short distance. Use a suitable hand truck.									
SPECIAL STORAGE RECOMMENDATIONS									
Keep cylinders away from source of heat. Storage should not be heavy traffic areas to prevent accidental knocking over or									
damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and									
empty cylinders. Stora	ige areas s	should be free	of comb	ustible m	aterial. Avoid exposure to areas where salt or other corrosive				
chemicals are present	. Store cor	npressed gas	cylinder	s with val	ve end up.				
OTHER RECOMMENDATIONS OF PRECAUTIONS									