		Safety Information			N		
FSC:	NIIN:		MSDS Date:		MSDS Num:		
	1660	01-138-8623		01/01/1995		CJKDL	
Submitter:			Tech Review:		Status CD:		
	D DG			08/06/1999		А	
Product ID:					MFN:		
Article:	OXYGEN, COMPRES	SED			Kit Part:	01	
Arucie:	Ν					N	
	11	Cage:				ŢĂ	
	Responsible Party	00742					
Name:							
	AIR PRODUCTS AND	CHEMICALS INC.					
Address	:						
~~~	7201 HAMILTON BL	VD	<b>C</b> • • •				
City			State:			Zip:	E 1501
Country	ALLENTOWN		PA	<b>L</b>		1819	95-1501
<b>-</b> , ,	US						
Info Phone Number:							
	800-752-1597; 800-34	45-3148					
Emergency Phone Number:	e :						
	US/800-523-9374/OU	T-US:810-481-771	1				
Resp. Party Other MSDS No.:							
	1012						
	<b>Proprietary Ind:</b>						
	Ν			R	Review Ind: Y		
	Published: Y			Special F	Project CD:		
 Summary						tractor T	<u>OP</u>
Ca	ge:	Name:					
Address:	00742	AIR P	RODUCTS A	ND CHEMIC	CALS INC		
City:	7201 HAMILTON BLVI	D			State:	Zip:	
	ALLENTOWN Country:		Phone:		PA	18	195–150
	US		800-	-345-3148/ 8	00-752-1597		
Ca	ge:	Name:					
Address:	62323	CONA	X FLORIDA	CORP			
City:	2801 75TH STREET N				State:	Zip:	

SAINT PETERSBURG Country:			FI Phon			
US Contract Number: SP0920-99-M-1045			813-345-8			
	Description Information	n		<u>TOP</u>		
	Item Manager:					
	S9G					
Item Name: OXYGEN	I SYSTEM,PORTABLE					
Specification Number: N/K		Ту	vpe/Grade/Class: N/	/K		
Unit of Issue: EA		Quantita	Quantitative Expression:			
UI Container Qty: 1		Ту	pe of Container: CY	YLINDER		
·	Ingredients			TOP		
<b>Cas:</b> 7782–44–7		Т	RS2	2060000 T		
Name: OXYGEN	Code:		RTECS #:	Code:		
		Environ	mental Wt:			
OSHA PEL:		Other R	EC Limits: N/P			
N/P		Code:	OSHA N/P STEL:	Code:		
ACGIH TLV: N/P		Code:	ACGIH N/P STEL:	Code:		
EPA Rpt Qty:			DOT Rpt			
EPA Rpt Qty: Ozone Depleting C	Shemical:					
	Chemical: N		Rpt			
			Rpt	==== Health		
Ozone Depleting C	N		Rpt			
Ozone Depleting C	N Hazards Data		Rpt			
Ozone Depleting C	N Hazards Data 50 LC50 Mixture N/P	Skin:NO	Rpt Qty:			

#### Health Hazards Acute And Chronic

TARGET ORGANS: EYES, CENTRAL NERVOUS SYSTEM. INHALATION: BREATHING 80% OR MORE OXYGEN AT ATMOSPHERIC PRESSURE FOR MORE THAN A FEW HOURS MAY CAUSE BREATHING DIFFICULTY. BREATHING OXYGEN AT HIGHER PRE SSURE INCREASES THE LIKEIHOOD OF ADVERSE EFFECTS WITHIN A SHORTER TIME PERIOD. BREATHING PURE OXYGEN UNDER PRESSURE MAY CAUSE LUNG DAMAGE & ALSO CENTRAL NERVOUS SYSTEM EFFECTS. BREATHING OXYGEN UNDER PRESSURE MAY CAUSE PROLONGATION OF ADAPTATION TO DARKNESS & REDUCED PERIPHERAL VISION. EYE/SKIN CONTACT: NO ADVERSE EFFECT. AIRWAY OBSTRUCTION DURING HIGH CONC. MAY CAUSE ALVEOLAR COLLAPSE & OCCLUSIO N OF THE EUSTACHIAN TUBES.

Explanation Of Carcinogenicity

N/R

Signs And Symptions Of Overexposure

INHALATION: BREATHING 80% OR MORE OXYGEN AT ATMOSPHERIC PRESSURE FOR MORE THAN A FEW HOURS MAY CAUSE NASAL STUFFINESS, COUGH, SORE THROAT, CHEST PAIN & BREATHING DIFFICULTY. BREATHING PURE OXYGEN UNDE R PRESSURE MAY CAUSE DIZZINESS, POOR COORDINATION, TINGLING SENSATION, VISUAL & HEARING DISTURBANCES, MUSCULAR TWITCHING, UNCONSCIOUSNESS & CONVULSIONS. OBSTRUCTION OF HTE PARANASAL SINUSES MAY PRODUC T 'VACUUM–TYPE' HEADACHE.

Medical Cond Aggravated By Exposure

CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

First Aid

INHALATION: MOVE VICTIM TO FRESH AIR OR IF IN ELEVATED PRESSURES REDUCE OXYGEN PRESSURES TO 1 ATMOSPHERE. CALL A PHYSICIAN & ADVISE THEM THAT THE VICTIM HAS BEEN EXPOSED TO A HIGH CONCENTRATION OF OXY GEN. EYE/SKIN CONTACT: NOT APPLICABLE. NOTES TO PHYSICIAN: ADMINISTRATION OF CERTAIN DRUGS, INCLUDING PHENOTHIAZINE DRUGS & CHLOROQUINE. VITAMIN 'E' DEFICIENCY MAY INCREASE SYSCEPTIBILITY TO OXYGEN T OXICITY.

Spill Release Procedures

EVACUATE ALL PERSONNEL FROM EFFECTED AREA. SHUT OFF SOURCE OF OXYGEN IF POSSIBLE. INCREASE VENTILATION TO RELEASE AREA. PERSONNEL EXPOSED TO HIGH CONC. OF OXYGEN SHOULD STAY IN A WELL–VENTILATED AREA FOR 30 MIN. BEFORE GOING INTO A CONFINED SPACE OR NEAR AN IGNITION SOURCE.

Neutralizing Agent

N/R

Waste Disposal Methods

RETURN CONTAINER & UNUSED PRODUCT TO SUPPLIER. DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITES. FOR EMERGENCY DISPOSAL, SECURE CYLINDER & SLOWLY DISCHARGE GAS TO THE ATMOSPHERE IN A WELL VE NTILATED AREA OR OUTDOORS.

CYLINDERS SHOULD BE STORED UPRIGHT IN A WELL–VENTILATED AREA. STORAGE AREA TEMPERATURES SHOULD NOT EXCEED 125F (52C) & AREA SHOULD BE FREE OF COMBUSTIBLES. DO NOT DRAG, ROLL, OR SLIDE CYLINDER. USE A PRESSURE REDUCING OR SEPARATE CONTROL VALVE TO SAFELY DISCHARGE GAS FROM CYLINDER.

#### Other Precautions

ALL GAUGES, VALVES, REGULATORS, PIPING & EQUIPMENT TO BE USED IN OXYGEN SERVICE MUST BE CLEANED FOR OXYGEN SERVICE IN ACCORDANCE WITH COMPRESSED GAS ASSOCIATION PAMPHLET G–4.1.

Explosion Haza	rd Information Fire and TOP				
Flash Point Method:					
N/A					
Flash Point:	Flash Point Text: N/A				
Autoignition Temp:	Autoignition Temp Text: N/A				
Lower Limits: NONFLAMMABLE	Upper Limits: NONFLAMMABLE				
E	xtinguishing Media				
OXYGEN IS NONFLAMMABLE BUT WILL SUPPORT SURROUNDING FIRE.	COMBUSTION. USE EXTINGUISHING MEDIA APPROPRIATE FOR				
Fire	Fighting Procedures				
SUPPORTING THE FIRE. IMMEDIATELY COOL CON	AREA. IF POSSIBLE, SHUT OFF FLOW OF OXYGEN WHICH IS ITAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE. A, IF POSSIBLE WITHOUT RISK. SELF CONTAINED BREATHING RKERS.				
Unusua	al Fire/Explosion Hazard				
BURN IN PRESENCE OF OXYGEN ATMOSPHERE(O'	ION. MATERIALS WHICH ARE NONCOMBUSTIBLE IN AIR WILL VER23%). FIRE RESIST CLOTHING MAY BURN & OFFER NO XYGEN MAY FORM EXPLOSIVE COMPDS WHEN EXPOSED TO OCARBON MATLS.				
Measures	ory Protection				

Ventilation

GENERAL USE: NONE REQUIRED. EMERGENCY: USE SCBA, DUE TO POSSIBILITY OF FIRE WHEN

CONCENTRATIONS EXCEED 23%.

# PROVIDE VENTILATION AND/OR LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS OF GAS (23%).

Protective Gloves
WORK GLOVES
Eye Protection

N/P

## Other Protective Equipment

# SAFETY SHOES/WORK GLOVES RECOMMENDED WHEN HANDLING CYLINDERS. CLOTHING EXPOSED TO HIGH CONCENTRATIONS MAY RETAIN OXYGEN 30 MINUTES OR LONGER BECOME POTENTIAL FIRE HAZARD. STAY AWAY FM IGNITION SOURCES

Work Hygienic Practices

N/P

Supplemental Safety and Health

N/P

Physical/Chemical Properties	
HCC:	
G4	NRC/State LIC No:
Net Prop WT For Ammo:	
Boiling Point: =-182.9C, -297.2F	B.P. Text:
Melt/Freeze Pt: =-218.8C, -361.8F	M.P/F.P Text:
Decomp Temp:	Decomp Text: N/P
Vapor Pres: N/A@70F	Vapor Density: 70F(21.1C)
Volatile Org Content %:	Spec Gravity: 70F & 1ATM; 1.10 (AIR=1)
VOC Pounds/Gallon:	
	PH: N/P
VOC Grams/Liter:	Viscosity: N/P

Evaporation Rate & Reference: N/P

## Solubility in Water: VOL/VOL AT 32F(0C); 0.049

Appearance and Odor: COLORLESS GAS. ODORLESS.

Percent Volatiles by Volume: N/P

Corrosion Rate: N/P

= Reactivity Data

TOP

**Stability Indicator:** 

YES

Stability Condition To Avoid: NONE.

# Materials To Avoid: OILS, GREASE, HYDROCARBONS AND FLAMMABLE MATERIALS.

Hazardous Decomposition Products: NONE.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization NONE.

					= Toxicological Informati	on <u>TOP</u>
Toxicologica	l Information:					
	NO TO OXYG CAN P RETIN	XICITY HAZARDS EN CONC. MAY SU ROGRESS TO RETI AL DAMAGE MAY	ENTRATION & PRI . PREMATURE INFA IFFER DELAYED RI NAL DETACHMEN ALSO OCCUR IN A ENDED PERIODS (2	ANTS EXPOSED ETINAL DAMA( T & B LINDNES DULTS EXPOS	9 TO HIGH GE WHICH S. ED TO	
					== Ecological Information	TOP
Ecologic	al:					
	EXPECTED. OX	XYGEN DOES NOT		ASS I OR CLASS	DGICAL EFFECTS AF S II OZONE DEPLETI ( 49 CFR 171).	
Information =====					==== MSDS Transport	<u>TOP</u>
Transport In	formation:					
	OXYGEN,	, COMPRESSED, UN	1072			
					== Regulatory Information	n <u>TOP</u>
Sa	ra Title III Information	n:				
		THRESHOLD PLA BASED ON REPC HAZARDOUS SU REQUIRE SUBMI CHEMICAL INVE EPA DEFINED HA	QUIRES EMERGEN ANNING QUANTITI PRTABLE QUANTITI BSTANCES (40 CFF SSION OF MATERI ENTORY REPORTIN AZARD CLASSES. T ARE: PRESSURE: YI	ES & RELEASE IES OF EPA'S E 355). SECTION AL SAFETY DA G WITH IDENT THE HAZARD C	REPORTING XTREMELY IS 311/3 12: TA SHEETS & IFICATION OF LASSES FOR	

## Federal Regulatory Information: CERCLA: NO REPORTABLE QUANTITY. OXYGEN IS LISTED ON THE TSCA INVENTORY.

### State Regulatory Information: CALIFORNIA: PROPOSITION 65: THIS PRODUCT DOES NOT CONTAIN ANY LISTED SUBSTANCES FOR WHICH THE STATE OF CALIFORNIA REQUIRES WARNING UNDER THIS STATUTE.



#### N/P

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