



MATERIAL SAFETY DATA SHEET

Product and Company Identification

LABEL IDENTIFIER: MSA Oxygen Administrator

PRODUCT IDENTIFIER: P/N 696082 Oxygen Administrator
P/N 696084 Cylinder and Valve, Oxygen, Aluminum

COMPANY IDENTIFICATION: Mine Safety Appliances Company
P.O. Box 439
Pittsburgh, PA 15230
CUSTOMER SERVICE: 1-800-MSA-2222 (8:30 am – 5:00 pm, local US time)
EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

Vendor Information

A Material Safety Data Sheet as furnished by Puritan – Bennett Corporation for Gaseous Oxygen is attached. (2 pages)

Puritan – Bennett Corporation MSDS Revision Date: 9/87

Other Information

WARNING: This is a hazardous chemical product. By following directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.



GAS PRODUCTS DIVISION
10800 PFLUMM ROAD
LENEXA, KANSAS 66215
(913) 469-5400

MATERIAL SAFETY DATA SHEET
GASEOUS OXYGEN

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	C

SECTION I - IDENTIFICATION

Issue Date: September, 1987
 Manufacturer's Name: Puritan-Bennett Corporation
 Address: 10800 Pflumm Road, Lenexa, Kansas 66215
 Emergency Phone No: 913-469-5400
 Chemical Name and Synonyms: Oxygen
 Trade Name and Synonyms: Gaseous Oxygen, Oxygen Gas, GOX
 Chemical Family: Oxidizer
 Formula: O₂

SECTION II - HAZARDOUS INGREDIENTS

Material	Volume %	CAS No.	OSHA PEL
Oxygen	99.5	7782-44-7	Not Pertinent

SECTION III - PHYSICAL DATA

Boiling Point: -297.4° F
 Vapor Pressure: N/A
 Vapor Density (Air = 1.0): 1.11
 Solubility in Water: Slight. 4.9cc O₂/100 cc H₂O at 32° F.
 Percent Volatile by Volume: 100%
 Evaporation Rate: Gas
 Appearance and Odor: Colorless and odorless gas

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
 Flammable Limit: N/A
 Extinguishing Media: Non-flammable, VIGOROUSLY ACCELERATES COMBUSTION
 Special Fire Fighting Procedures: Keep cylinders cool with water spray. Remove source of oxygen which accelerates combustion.
 Unusual Fire and Explosion Hazards: Excessive pressure can build up due to heat. Cylinders may explode if pressure relief devices should fail to relieve pressure.

SECTION V - HEALTH HAZARD DATA

ACGIH Time-Weighted Average Exposure Limit (TWA): None specified.
 ACGIH Short-Term Exposure Limit (STEL): Not pertinent
 Effects of Overexposure: Breathing high concentrations (over 75% by volume) may cause symptoms of hyperoxia including cramps, nausea, dizziness, hypothermia, respiratory difficulty, fainting, convulsions, capable of leading to death.
 Emergency and First Aid Procedures: Remove to area with fresh air and assist respiration. Obtain prompt medical attention and advise physician of hyperoxia.
 Carcinogenicity: Not listed in NTP or IARC; not regulated as a carcinogen by OSHA.

SECTION VI - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	N/A
Materials to Avoid:	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will Not Occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled:	Evacuate all personnel from area. Attempt to stop release. Remove ignition sources. Ventilate area.
Waste Disposal Method:	Vent to atmosphere in an open area.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eye Protection:	Safety goggles or glasses
Protective Gloves:	Cotton, leather or neoprene
Local Exhaust:	Recommended
Ventilation:	Prevent oxygen concentration over 25%
Respiratory Protection:	Not required
Other Protective Equipment:	Safety shoes when handling cylinders.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage:	Do not store near combustible materials or in hot locations. Oxygen is an oxidizing gas. VIGOROUSLY ACCELERATES COMBUSTION.
Other Precautions:	Cylinders should not be dropped. Keep properly secured or protected to prevent cylinders from being knocked over. Material can be stored outside. Temperature should be kept below 125° F. Cylinders should be stored upright with valve in place. Cylinders must not be recharged unless by or with the consent of Puritan-Bennett Corporation.
Additional Information:	Please refer to CGA Pamphlets G-4 "Oxygen", G-4.1 "Cleaning Equipment for Oxygen Service", P-1 "Safe Handling of Compressed Gases in Containers", and P-14 "Accident Prevention in Oxygen-rich and Oxygen-Deficient Atmospheres".

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