

Safety Data Sheet

Product Identifier:: Air, Compressed

SDS ID:: 006

*****Section 1 - IDENTIFICATION*****

Material Name

Air, Compressed

Synonyms

SCBA Cylinder; Compressed Air Cylinder (see MSA part numbers listed in Annex A)

Recommended Use

SCBA Cylinder

Restrictions on Use

None known.

Manufacturer Information

Mine Safety Appliances Company
1000 Cranberry Woods Drive
Cranberry Township, PA 16066

Canada Supplier:
MSA Toronto
5535 Eglinton Avenue West
#222
Toronto ON M9C 5K5 Canada

Phone: (724) 776-8900

Emergency # (800) 255-3924

*****Section 2 - HAZARD(S) IDENTIFICATION*****

Classification in accordance with 29 CFR 1910.1200.

Gas under pressure; Compressed Gas

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

WARNING

Hazard Statement(s)

Contains gas under pressure; may explode if heated

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

Protect from sunlight. Store in a well-ventilated place.

Disposal

Dispose of in accordance with applicable regulations.

Hazard(s) Not Otherwise Classified

May cause frostbite upon sudden release of compressed gas.

*****Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS*****

CAS	Component	Percent
7727-37-9	Nitrogen	79
7782-44-7	Oxygen	21

*****Section 4 - FIRST-AID MEASURES*****

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Get medical attention.

Skin Contact

If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

Eye Contact

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion

It is unlikely that first aid will be required.

Most Important Symptoms/Effects

Acute

frostbite

Delayed

No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively.

*****Section 5 - FIRE-FIGHTING MEASURES*****

Suitable Extinguishing Media

carbon dioxide, regular dry chemical
Large fires: Use water spray, fog or regular foam.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Product is nonflammable but will support and may accelerate combustion. Containers may rupture or explode if exposed to heat.

Hazardous Combustion Products

Combustion: miscellaneous decomposition products

Fire Fighting Measures

Move container from fire area if it can be done without risk. Fire involving tanks: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water spray until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from the ends of tanks. Damaged cylinders should be handled only by specialists.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

*****Section 6 - ACCIDENTAL RELEASE MEASURES*****

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Avoid contact with combustible materials. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. If leaking occurs, empty cylinder and remove from service. See SCBA Level II Maintenance Procedures for proper repair. If not certified to perform level II procedures, return cylinder to MSA Service Center.

*****Section 7 - HANDLING AND STORAGE*****

Precautions for Safe Handling

Keep away from clothing and other combustible materials.

Conditions for Safe Storage, including any Incompatibilities

Store in accordance with all current regulations and standards. Store in a well-ventilated place. Protect from sunlight. Protect from physical damage. Avoid heat, flames, sparks and other sources of ignition. Store in a clean, cool, dry place. Store below 125 °F. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

Incompatibilities: combustible materials

*****Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION*****

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Appropriate Engineering Controls

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

Glove Recommendations

Wear insulated gloves.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

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*****Section 9 - PHYSICAL AND CHEMICAL PROPERTIES*****

Physical State:	Gas	Appearance:	colorless gas
Color:	colorless	Physical Form:	gas
Odor:	odorless	Odor Threshold:	Not available
pH:	Not available	Melting Point:	Not available
Boiling Point:	-194.4 °C	Flash Point:	non-flammable
Decomposition:	Not available	Evaporation Rate:	Not available
OSHA Flammability Class:	non-flammable	LEL:	Not available
UEL:	Not available	Vapor Pressure:	Not available
Vapor Density (air = 1):	1	Density:	Not available
Specific Gravity (water = 1):	Not available	Water Solubility:	1.87 % by volume @ 20 °C
Coeff. Water/Oil Dist:	Not available	Auto Ignition:	Not available
Viscosity:	Not available		

*****Section 10 - STABILITY AND REACTIVITY*****

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid contact with combustible materials. Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

Incompatible Materials

combustible materials

Hazardous Decomposition Products

None known.

Hazardous Decomposition

Combustion: miscellaneous decomposition products

*****Section 11 - TOXICOLOGICAL INFORMATION*****

Acute Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

Information on Likely Routes of Exposure

Inhalation

No information on significant adverse effects.

Ingestion

No information on significant adverse effects.

Skin Contact

No information on significant adverse effects.

Eye Contact

No information on significant adverse effects.

Immediate Effects

frostbite

Delayed Effects

No information on significant adverse effects.

Medical Conditions Aggravated by Exposure

No data available.

Irritation/Corrosivity Data

No data available.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Germ Cell Mutagenicity

No data available.

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No significant target effects reported.

Specific Target Organ Toxicity - Repeated Exposure

No significant target effects reported.

Aspiration Hazard

Not expected to be an aspiration hazard.

*****Section 12 - ECOLOGICAL INFORMATION*****

Ecotoxicity

No information available for the product.

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

Persistence and Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility

No information available for the product.

Bioconcentration

No information available for the product.

Biodegradation

No information available for the product.

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*****Section 13 - DISPOSAL CONSIDERATIONS*****

Disposal Methods

Dispose in accordance with all applicable regulations. Do not puncture or incinerate container.

Disposal of Contaminated Packaging

Dispose in accordance with all applicable regulations.

*****Section 14 - TRANSPORT INFORMATION*****

US DOT Information

Shipping Name: Air, compressed

UN/NA #: UN1002 **Hazard Class:** 2.2

Required Label(s): 2.2

TDG Information

Shipping Name: Air, compressed

UN #: UN1002 **Hazard Class:** 2.2

Required Label(s): 2.2

Marine Pollutant

No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant.

*****Section 15 - REGULATORY INFORMATION*****

U.S. Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312

Acute Health: No **Chronic Health:** No **Fire:** Yes **Pressure:** Yes **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Nitrogen	7727-37-9	No	Yes	Yes	Yes	Yes
Oxygen	7782-44-7	No	Yes	No	Yes	Yes

Not regulated under California Proposition 65

Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification A, C.

Chemical Inventory Listings

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Nitrogen	7727-37-9	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes
Oxygen	7782-44-7	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

*****Section 16 - OTHER INFORMATION*****

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

The information contained in this document express our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.



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Annex A

Product Identifier P/N and Maximum Pressure for Cylinder and Valve Assemblies:

P/N	PSIG	P/N	PSIG	P/N	PSIG
77140	2490	807000	4500	10095804	2216
83867	1980	807002	4500	10095805	2216
94007	2216	807570	4500	10095806	2216
94008	2216	807586	2216	10095807	2216
96337	2216	807587	4500	10107272	5000
454081	2475	807588	4500	10127945	4500
455660	2310	809871	2216	10145872	4500
455943	1980	809872	2216	10156422	2216
456104	2216	812639	3000	10156423	4500
460320	2216	813312	3000	10156424	4500
465238	2490	815067	4500	10156425	4500
469619	2216	815068	4500	10156426	4500
470867	4500	815069	4500	10156426	4500
473262	4500	815070	3000	10160098	4500
473579	2216	815952	4500	10160099	4500
473581	2116	816030	4500	10160100	4500
473582	2116	816031	4500	10160101	4500
473583	2116	816048	4500	10160105	2216
473584	2116	816115	3000	10167678	3000
473585	2116	816116	4500	10167679	3000
473853	2116	816263	4500	10167680	3000
474156	4500	816329	4500	10175706	2216
474157	4500	816330	2216	10175707	4500
474931	2310	816937	3000	10175708	4500
475877	2216	816970	2216	10175709	4500
476131	2475	816973	4500	10175710	SP 4500
489020	3000	816974	3000	10181628	SP 5500
489023	3000	818159	2216	10181629	SP 5500
492283	4500	1027944	4500	10181630	SP 5500
492284	4500	1027945	4500	10185508	SP 5500
492285	2216	1027946	4500	10185509	SP 5500
492286	2216	1061367	3000	10185510	SP 5500
492287	2216	10008298	2216		
493998	3000	10008299	3000		
494021	3000	10030618	4500		
494886	3000	10030661	4500		
494887	3000	10035644	4500		
800697	3000	10042390	3000		
801279	2216	10042420	3000		
801280	2216	10042423	3000		
801281	2216	10061364	2216		
801284	4500	10061365	3000		
801285	4500	10061366	3000		
801286	4500	10062196	2216		
801287	4500	10062197	4500		
801288	3000	10065044	3000		
801289	3000	10095800	2216		
802191	3000	10095801	2216		
806933	4500	10095802	2216		