

Safety Data Sheet

Oxygen

Section 1: Product and Company Identification

Airweld 2095 E Olive St Decatur, IL 62526 (217) 428-4653 Gasandgeartogo.com

Product Code: Oxygen

Section 2: Hazards Identification



Hazard Classification: Gases Under Pressure Oxidizing Gas (Category 1)

Hazard Statements: Contains gas under pressure; may explode if heated May cause or intensify fire; oxidizer

Precautionary Statements

Prevention: Keep reduction valves/valves and fittings free from oil and grease. Keep and store away from clothing and combustible materials.

Response: In case of fire: Stop leak if safe to do so.

Storage: Protect from sunlight. Store in well-ventilated place.



 Chemical Substance
 Chemical Family
 Trade Names

 OXYGEN, COMPRESSED GAS
 Inorganic gases
 OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
None expected	None expected	Not likely route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	None

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen.	Oxides of burning material	 Respiratory protection may be needed for frequent or heavy exposure. None

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
······································	Avoid contact with combustible	Stop leak if possible without
Ventilate closed spaces before entering.	materials.	personal risk.

Methods for CleanupOther InformationStop leak and ventilateNone

Section 7: Handling and Storage

Handling	Storage
Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

OXYGEN, COMPRESSED GAS: No occupational exposure limits established.

Engineering Controls		
Handle only in fully enclosed systems.		
Eye Protection	Skin Protection	Respiratory Protection

Eye Protection	Skin Protection	Respiratory Protection
Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations Avoid breathing vapor or mist Avoid contact with eyes and skin Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
-297 F (-183 C)	-360 F (- 218 C)	760 mmHg @ -183 C	1.1 (Air=1)	Not applicable	3.2% @ 25 C	Not applicable	Not available	Not applicable	0.02075 cP @ 25 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
31.9988	02	1.309 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble: Alcohol

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals

Hazardous Decomposition Products Possibility of Hazardous Reactions Miscellaneous decomposition products Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
Not established	Not established	Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions

Skin Irritation	Sensitization
No information on significant adverse effects	No significant target effects reported.

Chronic Enects				
Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects	
Not known.	Available.	Available.	No data	

Section 12: Ecological Information

Fate and Transport

Eco toxicity

Fish toxicity: Not available	Not available	Low bioaccumulation	Not available
Invertibrate toxicity: Not available			
Algal toxicity: Not available			
Phyto toxicity: Not available			
Other toxicity: Not available			

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Oxygen, compressed	UN1072	2.2	Not available	2.2; 5.1	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods				
Shipping Name	UN Number	Class	Packing Group / Risk Group	
Oxygen, compressed	UN1072	2.2; 5.1	Not applicable	

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
No	No	Yes	No	Yes

SARA 372.65 Not regulated.

OSHA Process Safety Not regulated.

State Regulations

CA Proposition 65 Not regulated.

Canadian Regulations WHMIS Classification A,C

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)	
Listed on inventory.	Not listed.	Not determined.	

Section 16: Other Information

NFPA Rating

HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard