



Safety Data Sheet

Oxygen Medical

IndustrialSource
3500 Commercial Ave, Springfield, OR, 97478
Phone : 541-344-1438
Emergency Phone : 541-344-1438
CHEMTREC Account : CCN: 1024242
www.industrialsource.com

Section 1: Product and Company Identification

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Product Code: **Oxygen Medical**

Part Number: OX USP

Synonyms: Medical Oxygen

Recommended Use:

Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification:

Gases Under Pressure, H280

Oxidizing Gas (Category 1), H270

Hazard Statements:

H280: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE WHEN HEATED.

H270: MAY CAUSE OR INTENSIFY FIRE.

Precautionary Statements

P202: Do not handle until all safety precautions have been read and understood.

P220: Store away from clothing and other combustible materials.

P244: Keep valves and fittings free from oil and grease.

P271+P403: Use and store only outdoors or in a well-ventilated place.

P370+P376: In case of fire: Stop leak if safe to do so.

CGA-PG02: Protect from sunlight when ambient temperature exceeds 52C (125F).
CGA-PG05: Use a back flow preventive device in the piping.
CGA-PG06: Close valve after each use and when empty.
CGA-PG10+CGA-PG20: Use only with equipment of compatible materials of construction and rated for cylinder pressure.
CGA-PG12: Do not open valve until connected to equipment prepared for use.
CGA-PG21: Open valve slowly.
CGA-PG22: Use only equipment cleaned for oxygen service.
CGA-PG27: Read and follow the Safety Data Sheet (SDS) before use.

Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Oxygen	7782-44-7	100%

	Trade Names
Oxygen	O Oxygen Molecular oxygen oxygen molecule Dioxygen Pure oxygen

Section 4: First Aid Measures

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

Use suitable extinguishing material for surrounding fire.

Protection of Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Products of Combustion

Miscellaneous decomposition products

Section 6: Accidental Release Measures

Personal Precautions:

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

Environmental Precautions:

Keep away from drains, surface and ground water. Avoid heat, flames, sparks and other sources of ignition.

Methods for Containment and Cleanup:

Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. If necessary, cover drains. Absorb large spills, dispose in appropriate containers.

Section 7: Handling and Storage

Handling:

See precautions in Section 2. Only trained personnel should handle this product. Always use approved personal protective equipment.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep separated from incompatible substances.

Incompatible Materials

Combustible Materials, Halo Carbons, Metals, Bases, Reducing Agents, Amines, Metallic Salts, Oxidizing Agents, Alkaline Substance, Alkali Metals

Conditions to avoid

Avoid contact with combustibles.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines	Threshold Limit Value -TLV (ppm)
Oxygen	Not available

Engineering Controls

No specific controls are needed.

Eye Protection

Wear splash resistant safety goggles.

Skin Protection

Wear chemical protective clothing, including gloves.

Respiratory Protection

Use self-contained breathing apparatus.

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 / Physical Form	Appearance / Color	Odor	Flash Point	Flammability	Partition Coefficient
Oxygen	Gas	Colorless	Odorless	Nonflammable.	Nonflammable.	0

	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure
Oxygen	Nonflammable.	Not available	Not available	-297 F (-183 C)	-360 F (-218 C)	Not available

	Vapor Density	Specific Gravity	Water Solubility	pH	Evaporation Rate	Viscosity
Oxygen	1.1	Not applicable	3.2% @ 25 C	0	Not applicable	0.02075 cP @ 25 C

	Molecular Weight	Molecular Formula	Density	Volatility	Solvent Solubility
Oxygen	31.998	O ₂	Not available	Not applicable	Soluble : Alcohol

Section 10: Stability and Reactivity

	Stability	Possibility of Hazardous Reactions
Oxygen	Stable at normal temperature and pressure	Will not polymerize.

Conditions to avoid

Avoid contact with combustibles.

Incompatible Materials

Combustible Materials, Halo Carbons, Metals, Bases, Reducing Agents, Amines, Metallic Salts, Oxidizing Agents, Alkaline Substance, Alkali Metals

Hazardous Decomposition Products

Miscellaneous decomposition products

Section 11: Toxicology Information

The toxicology information is calculated for the mixture.

Acute Toxicity Estimates (ATE) of the mixture.

Oral ATE (mg/kg)	Not available
Inhalation ATE (ppm)	Not available
Dermal ATE (mg/kg)	Not available

Additional health hazards:

Skin Corrosion/Irritation	Not available
Eye Damage/Irritation	Not available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
STOT – single exposure	Not available
STOT – repeated exposure	Not available
Aspiration Hazard	Not available

Section 12: Ecological Information**Fate and Transport**

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Oxygen	Fish toxicity: 0	Not Available.	Accumulates very little in the bodies of living organisms.	Not Available.

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations. Do not dispose in sewers or waterways. Recycle if possible to do so. Return to manufacturer for disposal if needed.

Section 14: Transportation Information**Individual Component Information**

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	IMDG EmS
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Part Number: OX USP

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					DOT	IATA	DOT	IATA	
Oxygen	Oxygen, Compressed	UN1072	2.2 	Not available	Forbidden	Forbidden	Forbidden	30 kg	F-C, S-W

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	RQ	TPQ
Oxygen	Not regulated	Not regulated	Not regulated

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Oxygen	No	No	Yes	No	Yes

SARA 372.65

Oxygen	Not regulated
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OSHA Process Safety

Oxygen	Not regulated
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State Regulations

	CA Proposition 65
Oxygen	Not listed

Canadian Regulations

	WHMIS Classification
Oxygen	A,C

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDL)
Oxygen	Oxygen	Not listed	Listed on DSL

Section 16: Other Information

	NFPA Rating (Health, Fire, and Reactivity)
Oxygen	3, 0, 0

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