

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 06.30.2023

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O2 Blast



SECTION 1: Identification

Product Identifier

Product Name: O2 Blast

Synonyms: Compressed Oxygen; Molecular Oxygen; Pure Oxygen

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Compressed gas

Uses Advised Against: Any use other than recommended above.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

O2 Energy LLC
3419 Columbus Ave.
Anderson, IN 46013
317-462-3301
sales@o2blast.com

Emergency Telephone Number:

United States

O2 Energy LLC.
317-462-3301 (24 hours -- 7 days/week)

SECTION 2: Hazard(s) Identification

GHS Classification:

Oxidizing gases, category 1
Compressed gases

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H280 Contains gas under pressure; may explode if heated
H270 May cause or intensify fire; oxidizer

Precautionary Statements:

P103 Read label before use
P220 Keep and store away from clothing and other combustible materials.
P370+P376 In case of fire: Stop leak if safe to do so
P410+P403 Protect from sunlight. Store in a well-ventilated place

Hazards Not Otherwise Classified:

Breathing 80 percent or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, chest pain, and breathing difficulty. Breathing oxygen at higher pressure increases the likelihood of adverse effects within a shorter time period. Breathing pure oxygen under pressure may cause lung damage and central nervous system (CNS) effects, resulting in dizziness, poor

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coordination, tingling sensation, visual and hearing disturbances, muscular twitching, unconsciousness, and convulsions. Breathing oxygen under pressure may cause prolongation of adaptation to darkness and reduced peripheral vision.

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7782-44-7	Oxygen	>99.5

Additional Information: None

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

Under normal conditions of use, no health effects are expected.

After Skin Contact:

Adverse effects not expected from this product.

After Eye Contact:

Adverse effects not expected from this product.

After Swallowing:

This material is a gas under normal atmospheric conditions and ingestion is unlikely.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Inhalation exposure may cause central nervous system depression, headache, dizziness, drowsiness, wheezing, slowed reaction time, slurred speech, unconsciousness and asphyxiation without warning. Continuous inhalation may lead to respiratory difficulty and convulsions.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate Medical Attention and Special Treatment

Specific Treatment:

Not determined or not applicable.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Small Fire: Dry chemical or CO2.

Large Fire: Water spray, fog or regular foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Do not extinguish a leaking gas fire unless leak can be stopped.

Specific Hazards During Fire-Fighting:

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May cause or intensify fire: oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Vapors from liquefied gas are initially heavier than air and spread along ground. Runoff may create fire or explosion hazard. Containers may explode when heated. Ruptured cylinders may rocket. Vapors may cause dizziness or asphyxiation without warning. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode. Use shielding to protect against bursting containers.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 500 meters in all directions. If tank/rail car/tank truck is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Use flooding quantities of water until well after fire is out for cooling fire exposed containers. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Beware of possible container explosion. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not move cargo or vehicle if cargo has been exposed to heat. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Isolate area until gas has dispersed. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Oxygen occurs naturally in the atmosphere. The gas will dissipate rapidly in a well vented environment

Methods and Material for Containment and Cleaning Up:

There is nothing to clean up. You can recycle or throw the bottle away.

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Contents under pressure. Do not cut weld puncture or incinerate containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Post warning signs. Store upright. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Avoid storing large quantities, if possible. Containers less than 230 liters should be kept in a fire-resistant storage cabinet or inside storage room rated for fire resistance. Consider the use of leak detection and alarm equipment. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

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Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. It is recommended to handle materials under a fume hood or other locally exhausted ventilation. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. A lab coat must be worn. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Colorless gas.
Odor	Odorless
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-218.8 °C (-361.84°F)
Initial boiling point/range	-183 °C (-297°F)
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	2L- 260 psig, 5L/ 10L- 215 psig
Vapor density	1.105 Air= 1

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Density	1.326 kg/m ³ @32°F (0°C)
Relative density	1.105 Water= 1 @ 21.1°C (69.98°F)
Solubilities	Water: 0.0491 % @32°F (0°C)
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Oxidizing gas

SECTION 10: Stability and Reactivity

Reactivity:

The substance is a strong oxidant. It reacts with combustible and reducing materials. This generates fire and explosion hazard.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

The substance is a strong oxidant. It reacts with combustible and reducing materials. This generates fire and explosion hazard.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials.

Incompatible Materials:

Combustible materials; Reducing agents

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

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No data available.

Substance Data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

Inhalation, Skin contact, eye contact.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See section 4 of this SDS.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

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Product Data: No data available.

Substance Data: No data available.

Persistence and Degradability

Product Data: No data available.

Substance Data: No data available.

Bioaccumulative Potential

Product Data: No data available.

Substance Data: No data available.

Mobility in Soil

Product Data: No data available.

Substance Data: No data available.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:



It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN 1072
UN Proper Shipping Name	Oxygen, compressed
UN Transport Hazard Class(es)	2.2 (5.1)  
Packing Group	None
Environmental Hazards	None
Special Precautions for User	Cans should be transported in strong outside packaging. Ensure cans are not exposed to temperatures greater than 120F (as may occur on an enclosed vehicle on a hot day).
Passenger Air/Rail	75 kg
Cargo Aircraft Only	150 kg
Stowage Category	A

International Maritime Dangerous Goods (IMDG)

UN Number	UN 1072
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UN Proper Shipping Name	Oxygen, compressed
UN Transport Hazard Class(es)	2.2 (5.1) 
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
EmS Number	F-C, S-W
Stowage Category	A

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN 1072
UN Proper Shipping Name	Oxygen, compressed
UN Transport Hazard Class(es)	2.2 (5.1) 
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
ERG Code	2X
Passenger and Cargo	75 kg
Cargo Aircraft Only	150 kg

SECTION 15: Regulatory Information

United States Regulations

- Inventory Listing (TSCA):** All ingredients are listed-active or exempt.
- Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.
- Export Notification under TSCA Section 12(b):** None of the ingredients are listed.
- SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.
- SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.
- CERCLA:** None of the ingredients are listed.
- RCRA:** None of the ingredients are listed.
- Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

Massachusetts Right to Know:

7782-44-7	Oxygen	Listed
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New Jersey Right to Know:

7782-44-7	Oxygen	Listed
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New York Right to Know:

7782-44-7	Oxygen	Listed
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Pennsylvania Right to Know:

7782-44-7	Oxygen	Listed
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California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

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SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet