

Material Name: Oxygen, Refrigerated Liquid

SDS ID: 00244575

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name Oxygen, Refrigerated Liquid **Synonyms** LIQUID OXYGEN; LOX; OXYGEN; OXYGEN, PRESSURIZED LIQUID; UN 1073; O2; OXYGEN (CRYOGENIC LIQUID) **Chemical Family** inorganic, Gas **Product Description** Classification determined in accordance with Compressed Gas Association standards. **Product Use** Industrial and Specialty Gas Applications. **Restrictions on Use** None known. Details of the supplier of the safety data sheet WESTERN INTERNATIONAL GAS & CYL. INC. 7173 Hwy 159E P.O. Box 668 Bellville, TX 77418 Phone: 1-979-413-2100 Emergency Phone #: 1-800-424-9300 (CHEMTREC) Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200. Oxidizing Gases - Category 1 Gases Under Pressure - Refrigerated liquefied gas Simple Asphyxiant GHS Label Elements Symbol(s)



Signal Word Danger Hazard Statement(s) May cause or intensify fire; oxidizer. Contains refrigerated gas; may cause cryogenic burns or injury. May displace oxygen and cause rapid suffocation. Precautionary Statement(s) Prevention Keep valves and fittings free from oil and grease. Keep/Store away from clothing/combustible materials. Wear cold insulating gloves/face shield/eye protection. Response

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

Thaw frosted parts with lukewarm water. Do not rub affected area.

Get immediate medical advice/attention.

Storage

Store in a well-ventilated place.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

May cause frostbite upon sudden release of liquefied gas.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent				
7782-44-7	Oxygen, refrigerated liquid	100				
Section 4 - FIRST AID MEASURES						

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

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.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion

If swallowed, get medical attention.

Most Important Symptoms/Effects

Acute

May cause cryogenic burns, frostbite, suffocation

Delayed

No information on significant adverse effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not direct water at source of leak or safety devices; icing may occur.

Special Hazards Arising from the Chemical

Negligible fire hazard. Oxidizer. May ignite or explode on contact with combustible materials. Containers may rupture or explode if exposed to heat.

Hazardous Combustion Products

miscellaneous decomposition products

Fire Fighting Measures



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Use extinguishing agents appropriate for surrounding fire. Move container from fire area if it can be done without risk. Do not direct water at source of leak or safety devices; icing may occur. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Stop leak if you can do it without risk. Let the fire burn. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

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.

Methods and Materials for Containment and Cleaning Up

Avoid contact with combustible materials. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Do not direct water at spill or source of leak. Keep unnecessary people away, isolate hazard area and deny entry. Isolate area until gas has dispersed. Ventilate closed spaces before entering. Damaged cylinders should be handled only by specialists.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from clothing and other combustible materials. Keep reduction valves free from grease and oil. Avoid breathing gas. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Close valve after each use and when empty. **Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place.

Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.104. Protect from physical damage. Avoid heat, flames, sparks and other sources of ignition. Store in a clean, cool, dry place. Keep separated from incompatible substances. For additional and specific safe practices consult the following Compressed Gas Association (CGA) publications: P-1 "Safe Handling of Compressed Gases in Cylinders", AV-1 "Safe Handling and Storage of Compressed Gases", and "Compressed Gas Handbook".

Incompatible Materials

combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. Use a back flow preventive device in the piping. Use only equipment of compatible materials of construction. Use only with equipment rated for cylinder pressure.



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Individual Protection Measures, such as Personal Protective Equipment

Eye/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, but recommended. For the liquid: Wear appropriate protective, cold insulating clothing.

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. 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.

Glove Recommendations

For the gas: Protective gloves are not required, but recommended. For the liquid: Wear appropriate protective, cold insulating clothing.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES								
Appearance	blue liquefied gas	Physical State	gas					
Odor	odorless	Color	blue					
Odor Threshold	Not available	рН	Not available					
Melting Point	-218 °C (-360 °F)	Boiling Point	-183 °C (-297 °F)					
Boiling Point Range	Not available	Freezing point	Not available					
Evaporation Rate	Not available	Flammability (solid, gas)	Non-flammable					
Autoignition Temperature	Not available	Flash Point	Not available					
Lower Explosive Limit	Not available	Decomposition temperature	Not available					
Upper Explosive Limit	Not available	Vapor Pressure	760 mmHg @ -183 °C					
Vapor Density (air=1)	1.1	Specific Gravity (water=1)	1.1407 at -183 °C					
Water Solubility	3.2 % (@ 25 °C)	Partition coefficient: n-octanol/water	Not available					
Viscosity	0.156 cp	Kinematic viscosity	Not available					
Solubility (Other)	Not available	Density	Not available					
Log KOW	0.65	Physical Form	cryogenic liquid					
Taste	tasteless	Molecular Formula	02					



Molecular Weight	31.9988	triple point	-218.6 °C
Solvent Solubility			
Soluble			
alcohol			
	Section 10 - 9	STABILITY AND REAC	ΤΙΛΙΤΛ
Reactivity	Section 10 - 1		
No reactivity hazard is ex	xpected.		
Chemical Stability	-potton		
Stable at normal tempera	tures and pressure.		
Possibility of Hazardou			
Will not polymerize.			
Conditions to Avoid			
Protect from physical dat	mage and heat. Cont	ainers may rupture or explode if	exposed to heat. Oxidizer: Keep away
		ls. Avoid contact with incompati	
Incompatible Materials		-	
combustible materials, ha	alo carbons, metals,	bases, reducing agents, amines, a	metal salts, oxidizing materials
Hazardous decompositi			
miscellaneous decompos	ition products		
	Section 11 - TC	DXICOLOGICAL INFOR	RMATION
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Component Carcinogenicity None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA. Germ Cell Mutagenicity No data available. **Tumorigenic Data** No data available **Reproductive Toxicity** No data available. Specific Target Organ Toxicity - Single Exposure No target organs identified. **Specific Target Organ Toxicity - Repeated Exposure** No target organs identified. **Aspiration hazard** Not applicable. Medical Conditions Aggravated by Exposure No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity No LOLI ecotoxicity data are available for this product's components. **Persistence and Degradability** No data available for the mixture. **Bioaccumulative Potential** No data available for the mixture. **Other Toxicity** No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information: Shipping Name: OXYGEN, REFRIGERATED LIQUID Hazard Class: 2.2 UN/NA #: UN1073 **Required Label(s): 2.2**

IMDG Information: Shipping Name: OXYGEN, REFRIGERATED LIQUID Hazard Class: 2.2 UN#: UN1073 Required Label(s): 2.2 5.1 **International Bulk Chemical Code** This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Gas Under Pressure; Oxidizer; Simple Asphyxiant

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
Oxygen, refrigerated liquid	7782-44-7	No	Yes	No	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

Component Analysis - Inventory

Oxygen, refrigerated liquid (7782-44-7)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 3 Fire: 0 Instability: 0 Other: OX = Oxidizer Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe **Summary of Changes** 03/16/2020 - Update to Section(s) 1-16: Classification, Template update

Preparation Date

08/14/2014

Revision date 03/16/2020

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA -Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH -



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Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value: LOLI - List Of LIsts[™] - ChemADVISOR's Regulatory Database: MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP -National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA -Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand -FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS -Workplace Hazardous Materials Information System (Canada).

Other Information

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