

Date of issue: 09/05/2017 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product form	: Substance
Substance name	: Oxygen USP (refrigerated liquid)
Synonyms	: Medical Oxygen (refrigerated liquid)
CAS No	: 7782-44-7
Product code	: CA-1001-05232
Formula	: O <sub>2</sub>
I.2. Recommended use and restrict	
Recommended uses and restrictions	: Life support in medical applications
Recommended uses and restrictions	. Life support in medical applications
I.3. Supplier	
VitalAire Canada Inc. 6990 Creditview Road – Unit 6 LSN 8R9 Mississauga, ON – Canada T 1-888-629-0202	
www.vitalaire.com	
1.4. Emergency telephone number	
Emergency number	: 514-878-1667
SECTION 2. Horard identification	
SECTION 2: Hazard identification	
2.1. Classification of the substance	or mixture
Classification (GHS-CA)	
Dxidising Gases, Category 1	H270
Gases under pressure : Refrigerated liquefic	ed gas H281
Full text of H statements : see section 16	
2.2. GHS Label elements, including	precautionary statements
GHS-CA labelling	
Hazard pictograms (GHS-CA)	
	GHS03 GHS04
Signal word (GHS-CA)	: Danger
Hazard statements (GHS-CA)	: H270 - May cause or intensify fire; oxidizer H281 - Contains refrigerated gas; may cause cryogenic burns or injury
Precautionary statements (GHS-CA)	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood P220 - Keep away from clothing and other combustible materials P244 - Keep valves and fittings free from oil and grease P271+P403 - Use and store in a well-ventilated area P282 - Wear cold insulating gloves and either face shield or eye protection P370+P376 - In case of fire: Stop leak if safe to do so CGA-HG13 - Combustibles in contact with Liquid Oxygen may explode on ignition or impact CGA-PG06 - Close valve after each use and when empty CGA-PG20 - Use only with equipment of compatible materials of construction CGA-PG23 - Always keep container in an upright position CGA-PG24 - DO NOT change or force fit connections</li> </ul>
First Aid	CGA-PG28 - Avoid spills. Do not walk on or roll equipment over spills : P302+P336 - IF ON SKIN: Thaw frosted parts with lukewarm water. Do not rub affected are P315 - Get immediate medical advice/attention
2.3. Other hazards	
Other hazards not contributing to the classification	: Contact with gas or liquefied gas will cause burns, severe injury and/or frostbite.
2.4. Unknown acute toxicity (GHS-C	A)
No data available	
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n on in	gredients		
	Product identifier	%	Classification (GHS-CA)
	(CAS No) 7782-44-7	100	Ox. Gas 1, H270
			Refrigerated liquefied gas, H281
. Dom	we vietim to uncentaming	tod oroo	
			at 15 minutes. Apply a starila drassing. Obtain
			ist 15 minutes. Apply a sterile dressing. Obtain
: Imme	ediately flush eyes thoroug	hly with wate	r for at least 15 minutes.
: If fros	stbite has occurred, seek	nedical attent	ion immediate. DO NOT rub the affected area(s)
		ve anything b	y mouth to an unconscious person. DO NOT
	0		
		,	fects are expected. Overexposure to oxygen may
			sthite
	•	0 ,	
: Burn	δ.		
: Adve	rse effects not expected f	om this produ	ict.
: Adve	rse effects not expected f	om this produ	ict.
: If you	ı feel unwell, seek medica	l advice.	
: Use	extinguishing media appro	priate for surr	ounding area.
: Use e	extinguishing media appro	priate for surr	ounding area.
	extinguishing media appro	priate for surr	ounding area.
: None		priate for surr	ounding area.
: None	known. product		ounding area. escribed in sub-sections below.:
: None Izardous : No re	known. product		- -
: None zardous : No re : This : Prode	known. product product bazard other than product is not flammable. uct is not explosive. Heat	the effects de	- -
: None zardous : No re : This : Prode	known. product eactivity hazard other than product is not flammable.	the effects de	escribed in sub-sections below.:
: None zardous : No re : This : Produ and i	known. product product bazard other than product is not flammable. uct is not explosive. Heat	the effects de	escribed in sub-sections below.:
: None zardous : No re : This : Prode and i	known. product eactivity hazard other than product is not flammable. uct is not explosive. Heat ncreasing risks of burns a	the effects de may build prea nd injuries.	escribed in sub-sections below.:
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: None zardous : No re : This : Prod and i recaution : Expo : Stand firefig	known. product product is not flammable. uct is not explosive. Heat ncreasing risks of burns a ns for fire-fighters sure to fire may cause co dard protective clothing ar phters. Do not enter fire ar	the effects de may build prea nd injuries. ntainers to rup d equipment	escribed in sub-sections below.: ssure, rupturing closed containers, spreading fire
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: None zardous : No re : This : Produ and i recaution : Expo : Stand firefig prote SURES uipment	e known. product eactivity hazard other than product is not flammable. uct is not explosive. Heat increasing risks of burns a ns for fire-fighters sure to fire may cause co dard protective clothing ar phters. Do not enter fire ar ction. and emergency proced	the effects de may build pre- nd injuries. ntainers to rup d equipment ea without pro	escribed in sub-sections below.: ssure, rupturing closed containers, spreading fire eture/explode. (e.g. Self Contained Breathing Apparatus) for oper protective equipment, including respiratory
: None zardous : No re : This : Prodi and i recaution : Expo : Stand firefig prote sures uipment : Try to Elimi	known. product product is not flammable. uct is not explosive. Heat ncreasing risks of burns a ns for fire-fighters sure to fire may cause co dard protective clothing ar phters. Do not enter fire ar ction. and emergency proceed o stop release, if safe to d nate ignition sources. Ens	the effects de may build pre- nd injuries. ntainers to rup d equipment ea without pro	escribed in sub-sections below.: ssure, rupturing closed containers, spreading fire ture/explode. (e.g. Self Contained Breathing Apparatus) for oper protective equipment, including respiratory e area. Monitor concentration of released product ventilation. Seal off low lying areas where its
: None zardous : No re : This : Prodi and i recaution : Expo : Stand firefic prote sures uipment : Try to Elimi accu	e known. product eactivity hazard other than product is not flammable. uct is not explosive. Heat ncreasing risks of burns a ns for fire-fighters sure to fire may cause co dard protective clothing ar phters. Do not enter fire ar ction. and emergency proceed o stop release, if safe to d nate ignition sources. Ens mulation can be dangerou	the effects de may build prea nd injuries. ntainers to rup d equipment ea without pro ures o so. Evacuate ure adequate s. Keep upwir	escribed in sub-sections below.: ssure, rupturing closed containers, spreading fire ture/explode. (e.g. Self Contained Breathing Apparatus) for oper protective equipment, including respiratory e area. Monitor concentration of released product ventilation. Seal off low lying areas where its rd.
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: None zardous : No re : This : Prodi and i : Expo : Stand firefig prote sures uipment : Try to Elimi accui : EVAC equip	known. product bactivity hazard other than product is not flammable. uct is not explosive. Heat increasing risks of burns a <b>ns for fire-fighters</b> sure to fire may cause co dard protective clothing ar thers. Do not enter fire ar ction. and emergency proceded o stop release, if safe to d nate ignition sources. Ens mulation can be dangerou CUATE ALL PERSONNEL oment. If leak is on user's	the effects de may build pre- nd injuries. Intainers to rup d equipment ea without pro- pso. Evacuate ure adequate s. Keep upwir _ FROM AFFE equipment, be	escribed in sub-sections below.: ssure, rupturing closed containers, spreading fire ture/explode. (e.g. Self Contained Breathing Apparatus) for oper protective equipment, including respiratory e area. Monitor concentration of released product ventilation. Seal off low lying areas where its rd.
	: Rema : In ca medi : Imme : If fros flush induc : Unde cause : Onta : Direc to fro : Burns : Adve : Adve ecial tree	Product identifier     (CAS No) 7782-44-7      (Date of frostbite spray with we medical assistance.     Immediately flush eyes thoroug     If frostbite has occurred, seek reflush them with water. Never give induce vomiting.     (Cacute and delayed)     (Date normal conditions of use cause hyperoxia leading to oxy     (Contact with the liquefied gas refluence)     (Direct contact with the liquefied complexite from rapid liquid even     (Direct contact with the liquefied gas refluence)     (Direct contact with the liquence)     (Direct c	Product identifier       %         (CAS No) 7782-44-7       100         : Remove victim to uncontaminated area.       100         : In case of frostbite spray with water for at lear medical assistance.       100         : Immediately flush eyes thoroughly with water flush them with water. Never give anything brinduce vomiting.       100         : Under normal conditions of use, no health efficause hyperoxia leading to oxygen toxicity.       100         : Ontact with the liquefied gas may cause from this product of rostbite from rapid liquid evaporation.       100         : Burns.       : Adverse effects not expected from this product

For containment

: Try to stop release if without risk.

Methods for cleaning up	
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: Dispose of contents/container in accordance with local/regional/national/international

	regulations.
6.3. Reference to other sections	
For further information refer to section 8: "Exp	posure controls/personal protection"
<b>SECTION 7: Handling and storage</b>	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Use in a well- ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product.
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Do not expose to temperatures exceeding 52 °C/ 125 °F. Keep container closed when not in use. Protect cylinders from physical damage; do not drag, roll, slide or drop. Store in well ventilated area.
Incompatible products	: None known.
Incompatible materials	: Flammable materials. Combustible materials. Reducing agents.

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Ensure engineering controls are in place to prevent oxygen rich (>23.5%) atmospheres. Consider work permit system e.g. for maintenance activities.	
8.3. Individual protection measures/Per	onal protective equipment	
Personal protective equipment	: Gloves. Safety glasses. Protective clothing. Safety shoes. Face shield.	
Hand protection	: Wear working gloves when handling gas containers.	
Eye protection	: Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections.	
Skin and body protection	: Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing.	
Respiratory protection	: None necessary during routine operations. See Sections 5 & 6.	
Thermal hazard protection	: Wear cold insulating gloves when transfilling or breaking transfer connections.	
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for	
	specific methods for waste gas treatment.	

### **SECTION 9: Physical and chemical properties**

nd chemical properties	
: Liquid	
: Liquefied compressed gas.	
: 31.9988 g/mol	
: Bluish liquid.	
: No odour warning properties.	
: No data available	
: Not applicable for gases and gas mixtures.	
: -219 °C	
: -219 °C	
: -183 °C	
: Not applicable for gases and gas mixtures.	
: -118 °C	
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-	<ul> <li>Liquid</li> <li>Liquefied compressed gas.</li> <li>31.9988 g/mol</li> <li>Bluish liquid.</li> <li>No odour warning properties.</li> <li>No data available</li> <li>No tapplicable for gases and gas mixtures.</li> <li>-219 °C</li> <li>-183 °C</li> <li>Not applicable for gases and gas mixtures.</li> <li>-118 °C</li> </ul>

Auto-ignition temperature	: Not applicable.	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: Not applicable.	
Vapour pressure at 50 °C	: No data available	
Critical pressure	: 5043 kPa	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.1	
Relative density of saturated gas/air mixture	: No data available	
Density	: No data available	
Relative gas density	: 1.1	
Solubility	: Water: 39 mg/l	
Log Pow	: Not applicable for inorganic gases.	
Log Kow	: No data available	
Viscosity, kinematic	: Not applicable.	
Viscosity, dynamic	: Not applicable.	
Viscosity, kinematic (calculated value) (40 °C)	: No data available	
Explosive properties	: Not applicable.	
Oxidising properties	: Oxidizer.	
Explosive limits	: Non flammable.	
Lower explosive limit (LEL)	: No data available	
Upper explosive limit (UEL)	: No data available	
9.2. Other information		
Gas group	: Refrigerated liquefied gas	
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below	

:	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly	at or below
	ground level	

SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Risk of explosion if spilt on organic structural materials (e.g. wood or asphalt). Violently oxidize organic material.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: Combustible materials. Flammable materials. Reducing agents.
Hazardous decomposition products	: None.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

according to the Hazardous Products Regulation (Februar	y 11, 2015)
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: No ecological damage caused by this product.
12.2. Persistence and degradability	
Oxygen (refrigerated liquid) (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Oxygen (refrigerated liquid) (7782-44-7)	
Log Pow	Not applicable for inorganic gases.
Bioaccumulative potential	No ecological damage caused by this product.
12.4. Mobility in soil	
Oxygen (refrigerated liquid) (7782-44-7)	
Log Pow	Not applicable for inorganic gases.
Ecology - soil	No ecological damage caused by this product.
12.5. Other adverse effects	
Other adverse effects	: Can cause frost damage to vegetation.
SECTION 13: Disposal considerations	\$
13.1. Disposal methods	
Waste treatment methods	: Consult supplier for specific recommendations. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Additional information	: None.
SECTION 14: Transport information	
14.1. Basic shipping description	
In accordance with TDG	
Transportation of Dangerous Goods	
UN-No. (TDG)	: UN1073
TDG Primary Hazard Classes	: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.
TDG Subsidiary Classes	: 5.1
Transport Document Description	: UN1073 OXYGEN, REFRIGERATED LIQUID, 2.2
Proper Shipping Name	: OXYGEN, REFRIGERATED LIQUID
Hazard labels (TDG)	<ul> <li>2.2 - Non-flammable, non-toxic gases</li> <li>5.1 - Oxidizing substances</li> </ul>
TDG Special Provisions	: 87 - Despite the word "Forbidden" in column 9 of Schedule 1, these dangerous goods may be transported on a passenger carrying road vehicle or a passenger carrying railway vehicle in accordance with section 1.15 of Part 1, Coming into Force, Repeal, Interpretation, General Provisions and Special Cases, when they are used for medical purposes during transport and are in a means of containment with a capacity less than or equal to 1 L. SOR/2008-34
ERAP Index	: 3 000
Explosive Limit and Limited Quantity Index	: 0
Passenger Carrying Ship Index	: 450 kg
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: Forbidden
14.2. Transport information/DOT - USA	
Department of Transport	
DOT NA no.	: UN1073
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iccording to the Hazardous Products Regulation (Februa	iy 11, 2013)
UN-No.(DOT)	: 1073
Transport Document Description Proper Shipping Name (DOT)	<ul> <li>: UN1073 Oxygen, refrigerated liquid (cryogenic liquid), 2.2</li> <li>: Oxygen, refrigerated liquid (cryogenic liquid)</li> </ul>
Contains Statement Field Selection (DOT)	:
Class (DOT) Division (DOT) Hazard labels (DOT)	<ul> <li>2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115</li> <li>2.2</li> <li>2.2 - Non-flammable gas 5.1 - Oxidiser</li> </ul>
Dangerous for the environment	: No
DOT Special Provisions (49 CFR 172.102)	T75 - When portable tank instruction T75 is referenced in Column (7) of the 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of 178.277 of this subchapter TP5 - For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied delium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure of the portable tank's design pressure. For portable tanks used for the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium TP22 - Lubricants for portable tank fittings (for example, gaskets, shut-off valves, flanges) must be oxygen compatible
DOT Packaging Exceptions (49 CFR 173.xxx)	: 320
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 316
DOT Packaging Bulk (49 CFR 173.xxx)	: 318
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: Forbidden
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded
Emergency Response Guide (ERG) Number	: 122
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted Ensure valve protection device (where provided) is correctly fitted.
Other information	: No supplementary information available.
14.3. Air and sea transport	
IMDG	
UN-No. (IMDG)	
Proper Shipping Name (IMDG)	: OXYGEN, REFRIGERATED LIQUID
Class (IMDG)	: 2 - Gases
MFAG-No	: 122

### **Oxygen USP (refrigerated liquid)**

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Ship Safety Act	: Gases under pressure/Gases nonflammable nontoxic under pressure(Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)	
Port Regulation Law	: Hazardous materials/High pressure gas (Article 21, Paragraph 2 of Law, Article 12 rule, attached table that defines the type of dangerous goods)	
ΙΑΤΑ		
UN-No. (IATA)	: 1073	
Proper Shipping Name (IATA)	: Oxygen, refrigerated liquid	
Class (IATA)	: 2	
Civil Aeronautics Law	<ul> <li>Gases under pressure/Gases nonflammable nontoxic under pressure(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)</li> </ul>	

Oxygen (refrigerated liquid) (7782-44-7)         Listed on the Canadian DSL (Domestic Substances List)         15.2. International regulations         Oxygen (refrigerated liquid) (7782-44-7)         Listed on the AICS (Australian Inventory of Chemical Substances)	
15.2. International regulations Oxygen (refrigerated liquid) (7782-44-7)	
Oxygen (refrigerated liquid) (7782-44-7)	
Oxygen (refrigerated liquid) (7782-44-7)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on the Aloo (Adstralian inventory of Ohemical Oddstances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Listed on NZIOC (New Zealand Inventory of Chemicals)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	

Full text of H-statements:

	; oxidizer
H281 Contains refrigerated gas;	may cause cryogenic burns or injury

### SDS Canada (GHS)

THE INFORMATION, RECOMMENDATIONS AND DATA CONTAINED IN THIS DOCUMENT ARE INTENDED TO BE USED BY PROPERLY TRAINED AND QUALIFIED PERSONNEL ONLY AND AT THEIR SOLE RISKS AND DISCRETION. THE INFORMATION, RECOMMENDATIONS AND DATA HEREIN CONTAINED ARE DERIVED FROM SOURCES WHICH WE BELIEVE TO BE RELIABLE, HOWEVER, AIR LIQUIDE CANADA INC. MAKES NO REPRESENTATION AND GIVES NO WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THEIR ACCURACY OR COMPLETENESS AND ASSUMES NO LIABILITY FOR DAMAGES OR LOSS ARISING DIRECTLY OR INDIRECTLY FROM THEIR USE, WHETHER PROPER OR IMPROPER.