## Safety Data Sheet



## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

Product Name • Oxygen (23.5001 - 60%), Argon (Balance)

Product Code • M-23313/E-1

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • Please provide product use.

## 1.3 Details of the supplier of the safety data sheet

Manufacturer • Air Liquide

2700 Post Oak Blvd. Houston, TX 77056 United States

www.us.airliquide.com sds@airliquide.com

Telephone (Technical) • 713-896-2896 Telephone (Technical) • 800-819-1704

## 1.4 Emergency telephone number

Manufacturer 800-424-9300 - CHEMTREC

Manufacturer +1 703-527-3887 - Outside United States

### **Section 2: Hazards Identification**

#### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

CLP Oxidizing Gases 1 - H270 Compressed Gas - H280

**DSD/DPD** • Oxidizing (O)

R8

## 2.2 Label Elements

**CLP** 

#### **DANGER**





**Hazard statements** • H270 - May cause or intensify fire; oxidizer

H280 - Contains gas under pressure; may explode if heated

## **Precautionary statements**

**Prevention** • P220 - Keep/Store away from clothing and other combustible materials.

P244 - Keep reduction valves free from grease and oil.

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

**Storage/Disposal** • P403 - Store in a well-ventilated place.

DSD/DPD



**Risk phrases** • R8 - Contact with combustible material may cause fire.

#### 2.3 Other Hazards

 According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

• According to European Directive 1999/45/EC this preparation is considered dangerous.

## **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

OSHA HCS 2012 Oxidizing Gases 1 - H270 Compressed Gas - H280

2.2 Label elements
OSHA HCS 2012

#### **DANGER**





**Hazard statements** • May cause or intensify fire; oxidizer - H270 Contains gas under pressure; may explode if heated - H280

## **Precautionary statements**

**Prevention** • Keep/Store away from clothing and other combustible materials. - P220 Keep reduction valves free from grease and oil. - P244

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

Storage/Disposal . Store in a well-ventilated place. - P403

#### 2.3 Other hazards

• Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### Canada

**According to WHMIS** 

#### 2.1 Classification of the substance or mixture

• Compressed Gas - A Oxidizing - C

#### 2.2 Label elements

#### **WHMIS**





 Compressed Gas - A Oxidizing - C

# 2.3 Other hazards WHMIS

 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

#### 2.4 Other information





## Section 3 - Composition/Information on Ingredients

## 3.1 Substances

 Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

### 3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive	
	CAS:7782-44-7		EU DSD/DPD: Annex I - O; R8	
Oxygen	EC Number:231-956-9	23.5001% TO 60%	EU CLP: Annex VI - Ox. Gas 1 H270; Press. Gas - Comp., H280	
	EU Index:008-001-00-8		OSHA HCS 2012: Ox. Gas 1; Press Gas Comp.	
	CAS:7440-37-1		EU DSD/DPD: Not Classified	
Argon	EC Number:231-147-0	Balance	EU CLP: Self Classified - Press. Gas - Comp., H280	
	EC Number.231-147-0		OSHA HCS 2012: Press. Gas - Comp.; Simple Asphyx.	

### **Section 4 - First Aid Measures**

## 4.1 Description of first aid measures

Inhalation

 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

 Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.

Eye

 First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately if symptoms occur.

#### Ingestion

First aid is not expected to be necessary if material is used under ordinary conditions

and as recommended. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

## 4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** 

 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

#### 4.4 Other information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after overexposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

## Section 5 - Firefighting Measures

## 5.1 Extinguishing media

Suitable Extinguishing Media .

Use extinguishing agent suitable for type of surrounding fire. SMALL FIRES: Dry chemical or CO2.

LARGE FIRES: Water spray or fog.

Unsuitable Extinguishing Media

No data available

## 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion** 

**Hazards** 

**Hazardous Combustion Products** 

 Containers may explode when heated. Ruptured cylinders may rocket.

No data available

## 5.3 Advice for firefighters

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Always wear thermal protective clothing when handling refrigerated/cryogenic liquids. Wear positive pressure self-contained breathing apparatus (SCBA).

Move containers from fire area if you can do it without risk.

FIRE: If tank, rail car or tank truck is involved in a fire. ISOLATE for 800 meters (1/2) mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well after fire is out.

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

FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.

#### Section 6 - Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry.

#### **Emergency Procedures**

 Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. Do not direct water at spill or source of leak. LARGE SPILL: Consider initial downwind evacuation for at least 500 meters (1/3 mile)

## 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

## 6.3 Methods and material for containment and cleaning up

## Containment/Clean-up Measures

• Stop leak if you can do it without risk.

Do not direct water at spill or source of leak.

Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container.

If possible, turn leaking containers so that gas escapes rather than liquid.

Isolate area until gas has dispersed.

Ventilate the area.

Allow substance to evaporate.

#### 6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

## 7.1 Precautions for safe handling

#### Handling

• Use only with adequate ventilation. Ventilate closed spaces before entering. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Cylinders should be firmly secured to prevent falling or being knocked-over. Do not attempt to repair, adjust, or in any other way modify cylinders. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Store in a cool, dry, well-ventilated place. Protect cylinders against physical damage.
 Cylinders should be firmly secured to prevent falling or being knocked-over.

## 7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

## **Section 8 - Exposure Controls/Personal Protection**

## 8.1 Control parameters

**Exposure Limits/Guidelines** 

Currently there are no applicable exposure limits established for this material.

#### **Exposure Control Notations**

**Portugal** 

•Argon (7440-37-1): Simple Asphyxiants: (Simple Asphyxiant)

Ireland

Argon (7440-37-1): Simple Asphyxiants: (Asphyxiant)

Spain

Argon (7440-37-1): Simple Asphyxiants: (simple asphyxiant)

## 8.2 Exposure controls

## Engineering Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof - electrical, ventilating and/or lighting equipment.

#### **Personal Protective Equipment**

Respiratory

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear safety glasses.

Skin/Body

Wear leather gloves when handling cylinders.

**Environmental Exposure Controls** 

 Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## **Section 9 - Physical and Chemical Properties**

## 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless gas with no odor.
Color	Colorless	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	рН	Not relevant
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Not relevant	Explosive Properties	Data lacking
Oxidizing Properties:	Oxidizing gas.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	1.215 to 1.3153 Air=1
Evaporation Rate	Data lacking		
Flammability		•	-
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
Environmental	•	-	•
Octanol/Water Partition coefficient	Not relevant		

#### 9.2 Other Information

No additional physical and chemical parameters noted.

## **Section 10: Stability and Reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

Stable under normal temperatures and pressures.

## 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

Excess heat, sparks, open flame.

## 10.5 Incompatible materials

 Reacts violently with phosphine, hydrazine, ethers, alcohols, hydrogen sulfide, and hydrocarbons. Flammable and combustible materials, especially greases and oils.

## 10.6 Hazardous decomposition products

. None known.

## **Section 11 - Toxicological Information**

## 11.1 Information on toxicological effects

	Components					
Oxygen (23.5001%	7782-	Reproductive: Inhalation-Rat TCLo • 10 pph 9 Hour(s)(22D preg); Reproductive Effects:Specific Developmental				
TO 60%)	44-7	Abnormalities:Respiratory system; Reproductive Effects:Effects on Newborn:Physical				

GHS Properties	Classification
Acute toxicity	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Aspiration Hazard	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Carcinogenicity	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
Germ Cell Mutagenicity	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Skin corrosion/Irritation	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Skin sensitization	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
STOT-RE	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
STOT-SE	EU/CLP   Classification criteria not met OSHA HCS 2012   Classification criteria not met
Toxicity for Reproduction	EU/CLP ◆ Classification criteria not met OSHA HCS 2012 ◆ Classification criteria not met
Respiratory sensitization	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met
Serious eye damage/Irritation	EU/CLP   Classification criteria not met  OSHA HCS 2012   Classification criteria not met

## **Potential Health Effects**

#### Inhalation

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.
- Chronic (Delayed) No data available

#### Skin

Acute (Immediate)
Chronic (Delayed)

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

No data available

#### Eye

Acute (Immediate)

Chronic (Delayed)

Ingestion

Acute (Immediate)

**Chronic (Delayed)** 

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

No data available

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

No data available

#### Key to abbreviations

TC = Toxic Concentration

## **Section 12 - Ecological Information**

## **12.1 Toxicity**

Material data lacking.

## 12.2 Persistence and degradability

Material data lacking.

## 12.3 Bioaccumulative potential

Material data lacking.

## **12.4 Mobility in Soil**

Material data lacking.

#### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been conducted for this material.

#### 12.6 Other adverse effects

No studies have been found.

## **Section 13 - Disposal Considerations**

#### 13.1 Waste treatment methods

**Product waste** 

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** 

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN3156	Compressed gas, oxidizing, n.o.s. (Oxygen, Argon)	2.2,5.1	NDA	NDA
TDG	UN3156	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Argon)	2.2,5.1	NDA	NDA
IMO/IMDG	UN3156	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Argon)	2.2,5.1	NDA	NDA

IATA/ICAO	UN3156	Compressed gas, oxidizing, n.o.s. (Oxygen, Argon)	2.2,5.1	NDA	NDA	
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## 14.6 Special precautions for user

Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

## **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • Pressure(Sudden Release of), Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Argon	7440-37-1	Yes	Yes	Yes
Oxygen	7782-44-7	Yes	Yes	Yes

Inventory							
Component	CAS	Canada DSL	Canada NDSL	China	1	EU EINECS	EU ELNICS
Argon	7440-37-1	Yes	No	Yes		Yes	No
Oxygen	7782-44-7	Yes	No	Yes		Yes	No
			Inventory (Cor	n't.)			
Component	Component CAS TSCA						
Argon		744	40-37-1		Yes		
Oxygen		778	32-44-7		Yes		

#### Canada

bor Sanada Williams Classifications of Substances		
Canada - WHMIS - Classifications of Substances		
Oxygen	7782-44-7	A, C
• Argon	7440-37-1	Α
Canada - WHMIS - Ingredient Disclosure List		
Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed

Environment Canada - CEPA - Priority Substances List			
Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	

#### China

7440-37-1	Not Listed
7782-44-7	Not Listed
7440-37-1	Not Listed
7782-44-7	Not Listed
7440-37-1	Not Listed
7782-44-7	Not Listed
7440-37-1	Not Listed
7782-44-7	(compressed or refrigerate liquid)
7440-37-1	(compressed or refrigerate liquid)
7782-44-7	Not Listed
7440-37-1	Not Listed
	7782-44-7 7782-44-7 7782-44-7 77440-37-1

:U - CLP (1272/2008) - Annex VI - Table 3.2 - Cla	essification	
Oxygen	7782-44-7	O; R8
• Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Co	ncentration Limits	
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Lal	belling	
Oxygen	7782-44-7	O R:8 S:(2)-17
• Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - No	tes - Substances and Preparations	
Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Sa	fety Phrases	
• Oxygen	7782-44-7	S:(2)-17
• Argon	7440-37-1	Not Listed

## Germany

Environment Germany - TA Luft - Types and Classes			
Oxygen	7782-44-7	Not Listed	

• Argon	7440-37-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Oxygen	7782-44-7	ID Number 743, not consider hazardous to water
• Argon	7440-37-1	ID Number 1348, not considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Cla	isses	
Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
Other		
Germany - Specifically Regulated Chemicals in TRGS		
<ul> <li>Oxygen</li> </ul>	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
ortugal		
Other Portugal - Prohibited Substances		
	7782-11-7	Not Listed
Oxygen    Argon	7782-44-7 7440-37-1	Not Listed Not Listed
Oxygen     Argon  nited Kingdom Environment	7440-37-1	
Oxygen     Argon  ited Kingdom  invironment  United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re	7440-37-1 leases to Air	Not Listed
Oxygen     Argon  nited Kingdom Environment	7440-37-1	
Oxygen     Argon  ited Kingdom  invironment  United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon	7440-37-1  leases to Air  7782-44-7	Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review	Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in     Oxygen	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7	Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review	Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in     Oxygen     Argon  United Kingdom - List of Dangerous Substances in Water	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in     Oxygen     Argon  United Kingdom - List of Dangerous Substances in Water     Oxygen	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in     Oxygen     Argon  United Kingdom - List of Dangerous Substances in Water	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen     Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re     Oxygen     Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in     Oxygen     Argon  United Kingdom - List of Dangerous Substances in Water     Oxygen	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen Argon  Inited Kingdom  Invironment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re Oxygen Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  Argon  Inited States  Abor	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1  7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re Oxygen Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  Inited States  Discount One of the Company of	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1  7782-44-7 7440-37-1	Not Listed  Not Listed  Not Listed  Not Listed  Not Listed  Not Listed
Oxygen Argon  Inited Kingdom  Invironment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re Oxygen Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  Argon  Inited States  Abor	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1  7782-44-7 7440-37-1	Not Listed
Oxygen Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re Oxygen Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  Inited States  Abor U.S OSHA - Process Safety Management - Highly Hazardous Chemical Oxygen Oxygen	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1  7782-44-7 7440-37-1	Not Listed
Oxygen Argon  Argon  Inited Kingdom  Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Re Oxygen Argon  Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Oxygen Argon  United Kingdom - List of Dangerous Substances in Water Oxygen Argon  Inited States  abor U.S OSHA - Process Safety Management - Highly Hazardous Chemics Oxygen Argon	7440-37-1  leases to Air 7782-44-7 7440-37-1  Review 7782-44-7 7440-37-1  7782-44-7 7440-37-1	Not Listed

Environment U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants			
Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quar	ntities		
• Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities			
Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPC	CRA RQs		
• Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPC	Qs.		
• Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 313 - Emission Reporting			
• Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing			
• Oxygen	7782-44-7	Not Listed	
• Argon	7440-37-1	Not Listed	

## **United States - California**

nvironment		
U.S California - Proposition 65 - Carcinogens List		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
• Oxygen	7782-44-7	Not Listed
• Argon	7440-37-1	Not Listed

## **United States - Pennsylvania**

## Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Oxygen
 Argon
 7782-44-7 Not Listed
 Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Oxygen
 Argon
 7782-44-7 Not Listed
 Not Listed
 Not Listed

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

#### **Section 16 - Other Information**

## Last Revision Date Preparation Date

# Disclaimer/Statement of Liability

05/September/2014

05/September/2014

• To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**Key to abbreviations** NDA = No Data Available