## **Safety Data Sheet**



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

#### 1.1 Product identifier

• Methane (0.0001 - 4%), Oxygen (19.5 - 23.5%), Nitrogen (Balance)

Product Code M-M300014/E-1

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

Relevant identified use(s) • Calibration Gas

#### 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 • Compressed Gas - H280

**DSD/DPD** • Not classified

2.2 Label Elements

**CLP** 

#### **WARNING**



Hazard statements . H280 - Contains gas under pressure; may explode if heated

**Precautionary statements** 

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

DSD/DPD

Risk phrases . No label element(s) required

#### 2.3 Other Hazards

**CLP** 

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

DSD/DPD

 According to European Directive 1999/45/EC this preparation is not considered dangerous.

## **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** 

Compressed Gas - H280

## 2.2 Label elements

**OSHA HCS 2012** 

#### **WARNING**



Hazard statements . Contains gas under pressure; may explode if heated - H280

## **Precautionary statements**

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

#### 2.3 Other hazards

**OSHA HCS 2012** 

 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

**WHMIS** 

Compressed Gas - A

#### 2.2 Label elements

**WHMIS** 



Compressed Gas - A

### 2.3 Other hazards

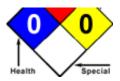
**WHMIS** 

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

#### 2.4 Other information

**NFPA** 





## 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			
Oxygen	CAS:7782-44-7 EC Number:231-956-9	19.5% TO 23.5%	EU DSD/DPD: Annex I: O; R8 EU CLP: Annex VI: Ox. Gas 1, H270; Press. Gas - Comp., H280 OSHA HCS 2012: Ox. Gas 1; Press Gas Comp.			
Methane	CAS:74-82-8 EC Number:200-812-7	0.0001% TO 4%	EU DSD/DPD: Annex I: F+; R12 EU CLP: Annex VI: Flam. Gas 1, H220; Press. Gas - Comp., H280 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp; Simp. Asphyx.			
Nitrogen	CAS:7727-37-9 EINECS:231-783-9	Balance	EU DSD/DPD: None EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.			

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

#### **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

 In case of contact with substance, immediately flush skin with running water for at least 20 minutes. If irritation develops and persists, get medical attention.

Eye

 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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.

## 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** 

Containers may explode when heated. Ruptured cylinders may rocket.

**Hazardous Combustion Products** 

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

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

No special environmental precautions necessary.

## 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								
	Result	ACGIH	Canada Ontario	Ireland	Israel	Portugal			
Methane (74-82-8)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA	1000 ppm TWA	1000 ppm TWA (gas, listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA [VLE- MP]			
		Ex	posure Limits/Gu	idelines (Con't.)					
			Result	Spain					
Methane (74-82-8)			TWAs	1000 ppm TWA ED]	VLA-				

#### **Exposure Control Notations**

**Portugal** 

•Nitrogen (7727-37-9): Simple Asphyxiants: (Simple Asphyxiant)

Ireland

Methane (74-82-8): Simple Asphyxiants: (Asphyxiant)
 Nitrogen (7727-37-9): Simple Asphyxiants: (Asphyxiant)

Spain

•Nitrogen (7727-37-9): 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.

#### **Personal Protective Equipment**

#### Respiratory

 In case of insufficient ventilation, wear suitable respiratory equipment. 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. Have available emergency selfcontained breathing apparatus or full-face airline respirator when using this chemical.

Eye/Face Skin/Body Wear safety glasses.

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.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## **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	-196 C(-320.8 F) Nitrogen	Melting Point	-210 C(-346 F) Nitrogen
Decomposition Temperature	Data lacking	рН	Not relevant
Specific Gravity/Relative Density	Data lacking	Water Solubility	18.68 cm3/l @ 20 C
Viscosity	Data lacking	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizer.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	1.105 to 1.091 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

#### 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.

## 10.5 Incompatible materials

Nitrogen reacts with Li, Nd, and Ti at high temperatures.

## 10.6 Hazardous decomposition products

No data available

## **Section 11 - Toxicological Information**

## 11.1 Information on toxicological effects

Component Name	CAS	Data
Oxygen (19.5% TO 23.5%)	7782-44-7	Reproductive: ihl-rat TCLo:10 pph/9H (22D preg)
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

Route(s) of entry/exposure

Potential Health Effects Inhalation

Acute (Immediate)
Chronic (Delayed)

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

Inhalation

## Skin

Acute (Immediate)

**Chronic (Delayed)** 

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

No data available

Acute (Immediate)

**Chronic (Delayed)** 

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

Ingestion

Acute (Immediate)

Ingestion is not anticipated to be a likely route of exposure to this product.

**Chronic (Delayed)** 

**Carcinogenic Effects** 

No data available

No data available

The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

## **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

**Potential Environmental Effects** 

No adverse ecological effects are expected.

## **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	UN1956	Compressed gas, n.o.s (Nitrogen, Oxygen)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)	2.2	NDA	NDA

IMO/IMDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s (Nitrogen, Oxygen)	2.2	NDA	NDA

## 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** • Acute, Pressure(Sudden Release of)

	State Right To Know						
Component	CAS	MA	NJ	PA			
Methane	74-82-8	Yes	Yes	Yes			
Nitrogen	7727-37-9	Yes	Yes	Yes			
Oxygen	7782-44-7	Yes	Yes	Yes			

	Inventory								
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS			
Methane	74-82-8	Yes	No	Yes	Yes	No			
Nitrogen	7727-37-9	Yes	No	Yes	Yes	No			
Oxygen	7782-44-7	Yes	No	Yes	Yes	No			
			Inventory (Co	n't.)					
Component			CAS	T	SCA				
Methane		74-	82-8	,	Yes				
Nitrogen		772	727-37-9 Yes						
Oxygen		778	32-44-7	,	Yes				

#### Canada

• Oxygen	7782-44-7 A, C
Nitrogen	7727-37-9 A
Methane	74-82-8 A, B1
Canada - WHMIS - Ingradient Disclosure List	
<u> </u>	
Canada - WHMIS - Ingredient Disclosure List • Oxygen	7782-44-7 Not Listed
<u> </u>	

• Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Canada - 2005 NPRI (National Pollutant Release Inventory)		
• Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting		
• Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	21 GWP
Canada - CEPA - Priority Substances List		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
Canada - DWQ (Drinking Water Quality) - IMACs		
• Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
ner Canada - Accelerated Reduction/Elimination of Toxics (ARET)		
Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
• Methane	14-82-8	NOT LISTED

Oxygen	7782-44-7 Not Listed
Nitrogen	7727-37-9 Not Listed
Methane	74-82-8 Not Listed
Canada - New Brunswick - Ozone Depleting Suk	ostances - Schedule B
, ,	ostances - Schedule B 7782-44-7 Not Listed
Canada - New Brunswick - Ozone Depleting Suk  Oxygen  Nitrogen	

## China

Environment China - Ozone Depleting Substances - First Schedule		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
China - Ozone Depleting Substances - Second Schedule		
• Oxygen	7782-44-7	Not Listed

Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
China - Ozone Depleting Substances - Third Schedule		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
	74-82-8	Not Listed

ther China - Annex I & II - Controlled Chemicals Lists		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
China - Dangerous Goods List		
• Oxygen	7782-44-7	(compressed or refrigerated liquid)
• Nitrogen	7727-37-9	(compressed or refrigerated liquid)
Methane	74-82-8	(compressed or refrigerated liquid)
China - Export Control List - Part I Chemicals		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

## **Europe**

ther EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Oxygen	7782-44-7	O; R8
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	F+; R12
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits	5	
Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Oxygen	7782-44-7	O R:8 S:(2)-17
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	F+ R:12 S:(2)-9-16-33
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances	and Preparations	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Oxygen	7782-44-7	S:(2)-17
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	S:(2)-9-16-33

# Germany Fryironm

Environment Germany - TA Luft - Types and Classes		
Oxygen	7782-44-7	Not Listed
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Oxygen	7782-44-7	ID Number 743, not considere hazardous to water
• Nitrogen	7727-37-9	ID Number 1351, not considered hazardous to water
Methane	74-82-8	ID Number 1343, not considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Other Germany - Specifically Regulated Chemicals in TRGS		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
ortugal		
Other		

Portugal - Prohibited Substances		
Oxygen	7782-44-7 N	lot Listed
Nitrogen	7727-37-9 N	lot Listed
Methane	74-82-8 N	lot Listed

## **United Kingdom**

Oxygen	7782-44-7 Not Listed
Nitrogen	7727-37-9 Not Listed
Methane	74-82-8 10000 kg
Jnited Kingdom - Substances Contained in D	angerous Substances or Preparations
United Kingdom - Substances Contained in Do Oxygen	Pangerous Substances or Preparations 7782-44-7 Not Listed
•	

Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Jnited Kingdom - List of Dangerous Substan	ces in Water	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

bor		
J.S OSHA - Process Safety Management - Highly Hazardous	Chemicals	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S OSHA - Specifically Regulated Chemicals		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
vironment		
J.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
J.S CERCLA/SARA - Hazardous Substances and their Reporta	able Quantities	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
J.S CERCLA/SARA - Radionuclides and Their Reportable Qua	ntities	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
J.S CERCLA/SARA - Section 302 Extremely Hazardous Substa	nces EPCRA RQs	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
J.S CERCLA/SARA - Section 302 Extremely Hazardous Substa	inces TPQs	
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
J.S CERCLA/SARA - Section 313 - Emission Reporting		
Oxygen	7782-44-7	Not Listed
	7707.07.0	
Nitrogen	7727-37-9	Not Listed

U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Oxygen	7782-44-7 Not L	isted
Nitrogen	7727-37-9 Not L	isted
Methane	74-82-8 Not L	isted

## **United States - California**

/ironment .S California - Proposition 65 - Carcinogens List		
Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S California - Proposition 65 - Developmental Toxicity		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Female		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
J.S California - Proposition 65 - Reproductive Toxicity - Male		
• Oxygen	7782-44-7	Not Listed
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed

## **United States - Pennsylvania**

Oxygen	7782-44-7 Not Listed
Nitrogen	7727-37-9 Not Listed
Methane	74-82-8 Not Listed
J.S Pennsylvania - RTK (Right to Know) - Sp	pecial Hazardous Substances
J.S Pennsylvania - RTK (Right to Know) - Sp • Oxygen	pecial Hazardous Substances 7782-44-7 Not Listed
J.S Pennsylvania - RTK (Right to Know) - Sp • Oxygen • Nitrogen	

## 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

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

#### Relevant Phrases (code & full text)

H220 - Extremely flammable gas

R8 - Contact with combustible material may cause fire.

- 29/January/2014
- 29/April/2011
- 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.

Last Revision Date
Preparation Date
Disclaimer/Statement of
Liability

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