Safety Data Sheet



Section 1: Identification

Product identifier

 Oxygen (0.0001 - 19.49%), Carbon Dioxide (0.0001 - 0.5%), Sulfur **Product Name**

Dioxide (0.0001 - 0.0002%), Nitrogen (Balance)

M-C400-10/E-2 **Product Code**

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

Recommended use Calibration Gas

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

Telephone (Technical) _ 713-896-2896 Telephone (Technical) . 800-819-1704

Emergency telephone number

Manufacturer 800-424-9300 - CHEMTREC

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

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 Compressed Gas - H280

Simple Asphyxiant

Label elements **OSHA HCS 2012**

WARNING



Hazard statements • H280 - Contains gas under pressure; may explode if heated May displace oxygen and cause rapid suffocation.

Precautionary statements

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

HCS 2012 Other • Mixtures containing carbon dioxide can increase respiration and heart rate. **Information**

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

Classification of the substance or mixture

WHMIS

Compressed Gas - A

Label elements

WHMIS



Compressed Gas - A

Other hazards

WHMIS

 This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces.
 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Other information

Mixtures containing carbon dioxide can increase respiration and heart rate.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

	Hazardous Components						
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Nitrogen	CAS :7727-37-9	80.0098% TO 99.9997%	NDA	OSHA HCS 2012: Press. Gas - Comp.; Simple Asphyxiant	Balance		
Oxygen	CAS :7782- 44-7	0.0001% TO 19.49%	NDA	OSHA HCS 2012: Ox. Gas 1; Press Gas Comp.	NDA		
Carbon dioxide	CAS :124-38-9	0.0001% TO 0.5%	Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)	OSHA HCS 2012: Press. Gas - Comp.; Simple Asphyxiant	1-5000 ppm		
Sulfur dioxide	CAS :7446-09-5	0.0001% TO 0.0002%	Inhalation-Rat LC50 • 2168 mg/m³	OSHA HCS 2012: Press. Gas - Comp.; Muta. 2; Acute Tox. 3 (inh); Repr. 2	1-2 ppm		

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

Section 4: First-Aid Measures

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. If irritation develops and persists, get medical attention.

Ingestion

Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

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. A potential health hazard associated with this gas is anoxia.

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: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media . Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media

No data available

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

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

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

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

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)

Environmental precautions

No special environmental precautions necessary.

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.

Reference to other sections

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

Section 7 - Handling and Storage

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.

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.

Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

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

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Sulfur dioxide (7446-09-5)	STELs	0.25 ppm STEL		5 ppm STEV; 13 mg/m3 STEV	5 ppm STEL; 13 mg/m3 STEL	Not established
	TWAs	Not established	2 ppm TWA; 5.2 mg/m3 TWA	2 ppm TWAEV; 5.2 mg/m3 TWAEV	2 ppm TWA; 5 mg/m3 TWA	5 ppm TWA; 13 mg/m3 TWA
Carbon dioxide (124-38-9)	STELs	30000 ppm STEL	30000 ppm STEL	30000 ppm STEV; 54000 mg/m3 STEV	30000 ppm STEL; 54000 mg/m3 STEL	Not established
	TWAs	5000 ppm TWA	5000 ppm TWA	5000 ppm TWAEV; 9000 mg/m3 TWAEV	• • • • • • • • • • • • • • • • • • • •	5000 ppm TWA; 9000 mg/m3 TWA

Exposure Control Notations

ACĞIH

•Sulfur dioxide (7446-09-5): Carcinogens: (A4 - Not Classifiable as a Human Carcinogen)

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

Pictograms





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

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.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description	<u>, </u>		
Physical Form	Gas	Appearance/Description	Colorless gas with irritating pungent odor.
Color	Colorless	Odor	Pungent
Taste	Data lacking	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	0.33 to 5 ppm	Physical and Chemical Properties	Data lacking
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking

Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
рН	Not relevant	Specific Gravity/Relative Density	Data lacking
Density	Data lacking	Bulk Density	Data lacking
Water Solubility	Data lacking	Solvent Solubility	Data lacking
Viscosity	Not relevant	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizing gas.		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	0.9966 Air=1
Evaporation Rate	Data lacking	VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking	Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion (ΔHc)	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant	Flammability (solid, gas)	Not flammable.
Environmental			
Half-Life	Data lacking	Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking	Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking	Biochemical Oxygen Demand BOD/BOD5	Data lacking
Chemical Oxygen Demand	Data lacking	Persistence	Data lacking
Degradation	Data lacking		

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

• Stable under normal temperatures and pressures.

Possibility of hazardous reactions

• Hazardous polymerization will not occur.

Conditions to avoid

. Excess heat.

Incompatible materials

No data available

Hazardous decomposition products

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

Section 11 - Toxicological Information

Information on toxicological effects

Component Name	CAS	Data
Oxygen (0.0001% TO 19.49%)	7782-44-7	Reproductive: ihl-rat TCLo:10 pph/9H (22D preg)
Carbon dioxide (0.0001% TO 0.5%)	II 1 7/1_ XX_U	Acute Toxicity: ihl-rat LC50:470000 ppm/30M; Reproductive: ihl-rat TCLo:6 pph/24H (10D preg)
Sulfur dioxide (0.0001% TO 0.0002%)		Acute Toxicity: ihl-rat LC50:2520 ppm/1H; Tumorigen/Carcinogen: ihl-rat TCLo:72 mg/kg/300D-l

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

Potential Health Effects Inhalation

Acute (Immediate)

• If this material is released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

Chronic (Delayed)

Skin

Acute (Immediate)

Chronic (Delayed)

Eve

Acute (Immediate)

Chronic (Delayed)

Ingestion

Acute (Immediate)
Chronic (Delayed)

- No data available
- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.
- Under normal conditions of use, no health effects are expected.
- Ingestion is not anticipated to be a likely route of exposure to this product.
- Ingestion is not anticipated to be a likely route of exposure to this product.

Mutagenic Effects

Carcinogenic Effects

No data available.

 The components of this material 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.

Reproductive Effects

No data available.

Section 12 - Ecological Information

Toxicity

Material data lacking.

Persistence and degradability

Material data lacking.

Bioaccumulative potential

Material data lacking.

Mobility in Soil

Material data lacking.

Results of PBT and vPvB assessment

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

Other adverse effects

Material data lacking.

Section 13 - Disposal Considerations

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

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.

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

Not relevant.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Pressure(Sudden Release of), Acute

State Right To Know					
Component	CAS	MA	NJ	PA	
Nitrogen	7727-37-9	Yes	Yes	Yes	
Oxygen	7782-44-7	Yes	Yes	Yes	
Carbon dioxide	124-38-9	Yes	Yes	Yes	
Sulfur dioxide	7446-09-5	Yes	Yes	Yes	

Inventory					
Component	CAS	Canada DSL	Canada NDSL	TSCA	
Nitrogen	7727-37-9	Yes	No	Yes	
Oxygen	7782-44-7	Yes	No	Yes	
Carbon dioxide	124-38-9	Yes	No	Yes	
Sulfur dioxide	7446-09-5	Yes	No	Yes	

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Oxygen 7782-44-7 0.0001% TO 19.49% A, C

Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% A, D1A, D2B, E

• Carbon dioxide 124-38-9 0.0001% TO 0.5% A; Uncontrolled product according to WHMIS classification criteria (solid)

Nitrogen 7727-37-9 80.0098% TO 99.9997% A

Canada - WHMIS - Ingredient Disclosure List

7782-44-7	0.0001% TO 19.49%	Not Listed
7446-09-5	0.0001% TO 0.0002%	1 %
124-38-9	0.0001% TO 0.5%	1 %
7727-37-9	80.0098% TO 99.9997%	Not Listed
	7446-09-5 124-38-9	7782-44-7 0.0001% TO 19.49% 7446-09-5 0.0001% TO 0.0002% 124-38-9 0.0001% TO 0.5% 7727-37-9 80.0098% TO 99.9997%

Environment

Canada - CEPA - Priority Substances List

 Oxygen 	7782-44-7	0.0001% TO 19.49%	Not Listed
 Sulfur dioxide 	7446-09-5	0.0001% TO 0.0002%	Not Listed
• Carbon dioxide	124-38-9	0.0001% TO 0.5%	Not Listed
 Nitrogen 	7727-37-9	80.0098% TO 99.9997%	Not Listed

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United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed

• Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% 1000 lb TQ (liquid)

Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

Environment[®]

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% 500 lb EPCRA RQ
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% 500 lb TPQ
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed

• Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% developmental toxicity, initial date 7/29/11

Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

United States - Pennsylvania

Labor

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

• Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed

• Sulfur dioxide 7446-09-5 0.0001% TO 0.0002%

Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

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

Oxygen 7782-44-7 0.0001% TO 19.49% Not Listed
 Sulfur dioxide 7446-09-5 0.0001% TO 0.0002% Not Listed
 Carbon dioxide 124-38-9 0.0001% TO 0.5% Not Listed
 Nitrogen 7727-37-9 80.0098% TO 99.9997% Not Listed

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date Preparation Date Disclaimer/Statement of Liability

- 24/September/2012
- 24/September/2012
- 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