

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

**Product Name** • Carbon Dioxide (0.5001 - 50%), Oxygen (0.0001 - 19.49%) and Sulfur Dioxide (0.0002 - 0.0999%), Nitrogen (Balance)

**Product Code** • M-C400-11/E-2

#### 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  
sds@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** • Contains gas under pressure; may explode if heated - H280  
May displace oxygen and cause rapid suffocation.

#### Precautionary statements

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

**Other hazards****OSHA HCS 2012**

- Inhalation of carbon dioxide can increase respiration and heart rate. 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**

- Inhalation of carbon dioxide can increase respiration and heart rate. 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).

**Section 3 - Composition/Information on Ingredients****Substances**

- Material does not meet the criteria of a substance.

**Mixtures**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Nitrogen	CAS:7727-37-9	30.4101% TO 99.4996%	NDA	OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.	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	0.5001% TO 50%	Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)	OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.	NDA
Sulfur dioxide	CAS:7446-09-5	0.0002% TO 0.0999%	Inhalation-Rat LC50 • 2520 ppm 1 Hour(s)	OSHA HCS 2012: Press. Gas - Comp.; Muta. 2; Acute Tox. 3 (inh); Repr. 2	2.0001 - 9 ppm

See Section 11 for Toxicological Information.

**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 over-exposure 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** ● Containers may explode when heated. Ruptured cylinders may rocket.

- Hazardous Combustion Products** ● 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 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

### 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.

## 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.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Sulfur dioxide (7446-09-5)	STELs	0.25 ppm STEL	5 ppm STEL; 10.4 mg/m <sup>3</sup> STEL	5 ppm STEV; 13 mg/m <sup>3</sup> STEV	5 ppm STEL; 13 mg/m <sup>3</sup> STEL	Not established
	TWAs	Not established	2 ppm TWA; 5.2 mg/m <sup>3</sup> TWA	2 ppm TWAEV; 5.2 mg/m <sup>3</sup> TWAEV	2 ppm TWA; 5 mg/m <sup>3</sup> TWA	5 ppm TWA; 13 mg/m <sup>3</sup> TWA
Carbon dioxide (124-38-9)	STELs	30000 ppm STEL	30000 ppm STEL	30000 ppm STEV; 54000 mg/m <sup>3</sup> STEV	30000 ppm STEL; 54000 mg/m <sup>3</sup> STEL	Not established
	TWAs	5000 ppm TWA	5000 ppm TWA	5000 ppm TWAEV; 9000 mg/m <sup>3</sup> TWAEV	5000 ppm TWA; 9000 mg/m <sup>3</sup> TWA	5000 ppm TWA; 9000 mg/m <sup>3</sup> TWA

### Exposure Control Notations

#### ACGIH

- 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

- 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

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless gas with irritating pungent odor.
Color	Colorless	Odor	Irritating pungent odor.
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
pH	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	1.29 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
Burning Time	Not relevant	Flame Height	Not relevant
Flame Extension	Not relevant	Ignition Distance	Not relevant
Flame Duration	Not relevant	Self-Accelerating Decomposition Temperature (SADT)	Not relevant

Heat of Combustion ( $\Delta H_c$ )	Not relevant	Flammability (solid, gas)	Not flammable.
<b>Environmental</b>			
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	<b>Reproductive:</b> ihl-rat TCLo:10 pph/9H (22D preg)
Carbon dioxide (0.5001% TO 50%)	124-38-9	<b>Acute Toxicity:</b> ihl-rat LC50:470000 ppm/30M; <b>Reproductive:</b> ihl-rat TCLo:6 pph/24H (10D preg)
Sulfur dioxide (0.0002% TO 0.0999%)	7446-09-5	<b>Acute Toxicity:</b> ihl-rat LC50:2520 ppm/1H; <b>Tumorigen/Carcinogen:</b> ihl-rat TCLo:72 mg/kg/300D-I

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
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

<b>Toxicity for Reproduction</b>	<b>OSHA HCS 2012</b> • Classification criteria not met
<b>Respiratory sensitization</b>	<b>OSHA HCS 2012</b> • Classification criteria not met
<b>Serious eye damage/Irritation</b>	<b>OSHA HCS 2012</b> • 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)

- No data available

### Skin

#### Acute (Immediate)

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

#### Chronic (Delayed)

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

### Eye

#### Acute (Immediate)

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

#### 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)

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

### Mutagenic Effects

- No data available.

### Carcinogenic Effects

- 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.

## 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

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN1956	Compressed gas, n.o.s (Nitrogen, Carbon Dioxide)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Carbon Dioxide)	2.2	NDA	NDA
IMO/IMDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Carbon Dioxide)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s (Nitrogen, Carbon Dioxide)	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** • Acute, Pressure(Sudden Release of)

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

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

## Canada



**Labor****Canada - WHMIS - Classifications of Substances**

• Oxygen	7782-44-7	A, C
• Sulfur dioxide	7446-09-5	A, D1A, D2B, E
• Carbon dioxide	124-38-9	A; Uncontrolled product according to WHMIS classification criteria (solid)
• Nitrogen	7727-37-9	A

**Canada - WHMIS - Ingredient Disclosure List**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	1 %
• Carbon dioxide	124-38-9	1 %
• Nitrogen	7727-37-9	Not Listed

**Environment****Canada - CEPA - Priority Substances List**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	1000 lb TQ (liquid)
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	500 lb EPCRA RQ
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	500 lb TPQ
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	developmental toxicity, initial date 7/29/11
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
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• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

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

• Oxygen	7782-44-7	Not Listed
• Sulfur dioxide	7446-09-5	Not Listed
• Carbon dioxide	124-38-9	Not Listed
• Nitrogen	7727-37-9	Not Listed

**Section 16 - Other Information****Last Revision Date**

- 07/December/2012

**Preparation Date**

- 07/December/2012

**Disclaimer/Statement of Liability**

- 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