Safety Data Sheet



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

1.1 Product identifier

• Methane (12.001-50%), Nitrogen (Balance)

Product Code • 50043

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 Flammable Gases 1 - H220 Compressed Gas - H280

DSD/DPD • Extremely Flammable (F+)

R12

2.2 Label Elements

CLP

DANGER

Hazard statements • H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

Precautionary statements

Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Response • P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 - Eliminate all ignition sources if safe to do so.

Storage/Disposal • P410+P403 - Protect from sunlight. Store in a well-ventilated place.

DSD/DPD



Risk phrases . R12 - Extremely flammable.

Safety phrases • S9 - Keep container in a well ventilated place

S16 - Keep away from sources of ignition - No Smoking.

2.3 Other Hazards

CLP • This material is a simple asphyxiant. May displace or reduce oxygen available for

breathing especially in confined spaces.

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

hazardous.

DSD/DPD • This material is a simple asphyxiant. May displace or reduce oxygen available for

breathing especially in confined spaces.

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

 Flammable Gases 1 - H220 Compressed Gas - H280 Simple Asphyxiant

2.2 Label elements

OSHA HCS 2012

DANGER





Hazard statements . Extremely flammable gas - H220

Contains gas under pressure; may explode if heated - H280

May displace oxygen and cause rapid suffocation.

Precautionary statements

Prevention Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210

Response • Leaking gas fire: Do not extinguish, unless leak can be stopped safely. - P377

Eliminate all ignition sources if safe to do so. - P381

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 Flammable Gases - B1

2.2 Label elements WHMIS





 Compressed Gas - A Flammable Gases - B1

2.3 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).

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	
Methane	CAS:74-82-8 EC Number:200-812-7	12.001% TO 50%	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.; Simple Asphyxiant	
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.

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. If eye irritation persists: Get medical advice/attention.

Ingestion

Ingestion is not considered a potential route of exposure.

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 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 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media .

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

EXTREMELY FLAMMABLE

Will form explosive mixtures with air.

Vapors may travel to source of ignition and flash back.

Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.

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).

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED 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 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all

FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire. FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

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

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: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

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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

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. LARGE SPILL: Consider initial downwind evacuation for at least 800 meters (1/2 mile)

6.2 Environmental precautions

Prevent spreading of vapors through sewers, ventilation systems and confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up **Measures**

 All equipment used when handling the product must be grounded. Stop leak if you can do it without risk.

If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container.

Do not direct water at spill or source of leak. Isolate area until gas has dispersed.

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

 Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Use only non-sparking tools. 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. Use explosion-proof - electrical, ventilating and/or lighting equipment. 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

Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Do not allow area where cylinders are stored to exceed 52C (125F). Cylinders must be protected from the environment, and preferably kept at room temperature approximately 21C (70F). Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked -over. Store locked up.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Preparation Date: 13/November/2012 Format: EU CLP/REACH Language: English (US) Revision Date: 11/December/2013 Page 5 of 14

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

•Nitrogen (7727-37-9): Simple Asphyxiants: (Asphyxiant) | 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. Use explosion-proof - electrical, ventilating and/or lighting equipment.

Personal Protective Equipment

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

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.

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	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility		-	

Vapor Pressure	Data lacking	Vapor Density	0.759 to 1.031 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	15 %
LEL	5 %	Autoignition	Data lacking
Flammability (solid, gas)	Flammable gas.		
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, sparks, open flame.

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

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

Inhalation, Skin, Eye

Acute (Immediate)

• This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. 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)

Eye

Acute (Immediate)

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

Carcinogenic Effects

No data available

• 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

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

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.

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

No PBT and vPvB assessment has been conducted.

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	UN1954	Compressed gas, flammable, n.o.s. (Methane, Nitrogen)	2.1	NDA	NDA
TDG	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Nitrogen)	2.1	NDA	Potential Marine Pollutant
IMO/IMDG	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Nitrogen)	2.1	NDA	NDA
IATA/ICAO	UN1954	Compressed gas, flammable, n.o.s. (Methane, Nitrogen)	2.1	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, Fire, 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

Canada - WHMIS - Classifications of Substances

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINE	CS EU ELNICS
Methane	74-82-8	Yes	No	Yes	Yes	No
Nitrogen	7727-37-9	Yes	No	Yes	Yes	No
			Inventory (Cor	n't.)		
Component			CAS		TSCA	
Methane	Methane 74-82-8 Yes					
Nitrogen	Nitrogen 7727-37-9 Yes					

Gariada Willing Glassiffortions of Gassianous		
Nitrogen	7727-37-9	Α
Methane	74-82-8	A, B1
Canada - WHMIS - Ingredient Disclosure List		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
nvironment		
Canada - 2004 NPRI (National Pollutant Release Inventory)		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Canada - 2005 NPRI (National Pollutant Release Inventory)		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	21 GWP
Canada - CEPA - Priority Substances List		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Canada - DWQ (Drinking Water Quality) - IMACs		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

Canada - Accelerated Reduction/Elimination of Toxics (ARET) • Nitrogen • Methane 7727-37-9 Not Listed 74-82-8 Not Listed

Canada New Brunswick

Other '

Environment Canada - New Brunswick - Ozone Depleting Substar	nces - Schedule A	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Scheo		N (1) ()	
Nitrogen	7727-37-9	Not Listed	
Methane	74-82-8	Not Listed	
Oh in a			

China

Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
China - Ozone Depleting Substances - Second Schedule		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
China - Ozone Depleting Substances - Third Schedule		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

 Nitrogen 	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
China - Dangerous Goods List		
Nitrogen	7727-37-9	(compressed or refrigerat liquid)
Methane	74-82-8	(compressed or refrigerat liquid)
China - Export Control List - Part I Chemicals		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

Europe

Other		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	F+; R12
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limit	s	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
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	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	S:(2)-9-16-33

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Germany		
Environment Germany - TA Luft - Types and Classes		
• Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
• Methane	74-02-0	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• 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		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
mountains.		Trot Liotou
Other		
Germany - Specifically Regulated Chemicals in TRGS		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
Portugal		
Other Portugal - Prohibited Substances		
• Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
United Kingdom		
Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to A	\ir	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	10000 kg
United Kingdom - Substances Contained in Dangerous Substances or Preparation	ons	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
- Other		
Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

Nitrogen

Methane

United Kingdom - List of Dangerous Substances in Water

Not Listed

Not Listed

7727-37-9

74-82-8

United States

U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
nvironment U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
	7727-37-9	Not Listed
Nitrogen Methane	74-82-8	Not Listed Not Listed
· Mediane	14-02-0	NOT LISTED
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Nitrogen	7727-37-9	Not Listed
• Methane	74-82-8	Not Listed

United States - California

I vironment U.S California - Proposition 65 - Carcinog	ens List	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S California - Proposition 65 - Developm	nental Toxicity	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S California - Proposition 65 - Maximum	Allowable Dose Levels (MADL)	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S California - Proposition 65 - No Significant	Risk Levels (NSRL)	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S California - Proposition 65 - Reproductive T	Toxicity - Female	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S California - Proposition 65 - Reproductive T	Foxicity - Male	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

United States - Pennsylvania

Labor U.S Pennsylvania - RTK (Right to Know) - Enviro	onmental Hazard List	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Speci	al Hazardous Substances	
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	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

- 11/December/2013
- 13/November/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