

Safety Data Sheet



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

1.1 Product identifier

- Product Name** • Propane (1-1000 PPM) in Air (Balance)
Product Code • M-23411/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.
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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).
-
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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
Propane	CAS:74-98-6 EC Number:200-827-9	1ppm TO 1000ppm	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.
Air	CAS:132259-10-0	Balance	EU DSD/DPD: Not Classified EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp

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

- 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. Get medical attention if symptoms occur. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

Ingestion

- As this product is a gas, refer to the inhalation section. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

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

4.4 Other information

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after 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

- 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 possible.
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. 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	Canada Quebec	Germany DFG	Germany TRGS
Propane (74-98-6)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA	1000 ppm TWAEV; 1800 mg/m ³ TWAEV	Not established	1000 ppm TWA AGW (exposure factor 4); 1800 mg/m ³ TWA AGW (exposure factor 4)
	Ceilings	Not established	Not established	Not established	4000 ppm Peak; 7200 mg/m ³ Peak	Not established
	MAKs	Not established	Not established	Not established	1000 ppm TWA MAK; 1800 mg/m ³ TWA MAK	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Ireland	Israel	NIOSH	OSHA	Portugal
Propane (74-98-6)	TWAs	1000 ppm TWA	1000 ppm TWA (gas)	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA [VLE-MP]
Exposure Limits/Guidelines (Con't.)						
	Result	Spain				
Propane (74-98-6)	TWAs	1000 ppm TWA [VLA-ED]				

Exposure Control Notations

Ireland

- Propane (74-98-6): **Simple Asphyxiants:** (Asphyxiant)

Germany DFG

- Propane (74-98-6): **Pregnancy:** (classification not yet possible)

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.

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

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless gas with pungent odor.
Color	Colorless	Odor	Pungent
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Not relevant
Specific Gravity/Relative Density	Data lacking	Water Solubility	18.68 cm ³ /l @ 20 C
Viscosity	Data lacking	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizing gas.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	1.11 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

- No data available

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

- Inhalation, Skin, Eye

Potential Health Effects

Inhalation

Acute (Immediate)

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

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

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

Chronic (Delayed)

- No data available

Eye

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

Ingestion

- Acute (Immediate)** ● Ingestion is not anticipated to be a likely route of exposure to this product.
- Chronic (Delayed)** ● No data available

Section 12 - Ecological Information**12.1 Toxicity**

- This gas mixture does not present a hazard of toxicity to the environment.

12.2 Persistence and degradability

- Not relevant.

12.3 Bioaccumulative potential

- Not relevant.

12.4 Mobility in Soil

- Not relevant.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse 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 (Air, Propane)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS, N.O.S. (Air, Propane)	2.2	NDA	NDA
IMO/MDG	UN1956	COMPRESSED GAS, N.O.S. (Air, Propane)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s (Air, Propane)	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 • Pressure(Sudden Release of)

State Right To Know				
Component	CAS	MA	NJ	PA
Air	132259-10-0	No	No	No
Propane	74-98-6	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Air	132259-10-0	No	No	Yes	No	No
Propane	74-98-6	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Air	132259-10-0	No
Propane	74-98-6	Yes

Australia

Labor

Australia - High Volume Industrial Chemicals List

- Air 132259-10-0 Not Listed
- Propane 74-98-6

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Air 132259-10-0 A
- Propane 74-98-6 A, B1

Canada - WHMIS - Ingredient Disclosure List

- Air 132259-10-0 Not Listed
- Propane 74-98-6 Not Listed

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

- Air 132259-10-0 Not Listed
- Propane 74-98-6 Part 5 Substance

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Part 5 Substance

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Canada - CEPA - Priority Substances List

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Other**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Canada New Brunswick**Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

China**Environment****China - Ozone Depleting Substances - First Schedule**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

China - Ozone Depleting Substances - Second Schedule

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Other**China - Annex I & II - Controlled Chemicals Lists**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

China - Dangerous Goods List

• Air	132259-10-0	(compressed or refrigerated liquid)
• Propane	74-98-6	
China - Export Control List - Part I Chemicals		
• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Air	132259-10-0	Not Listed
• Propane	74-98-6	F+; R12

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Air	132259-10-0	Not Listed
• Propane	74-98-6	F+ R:12 S:(2)-9-16

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Air	132259-10-0	Not Listed
• Propane	74-98-6	S:(2)-9-16

Germany

Environment

Germany - TA Luft - Types and Classes

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Air	132259-10-0	Not Listed
• Propane	74-98-6	ID Number 560, not considered hazardous to water

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Other

Germany - Specifically Regulated Chemicals in TRGS

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Portugal**Other****Portugal - Prohibited Substances**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

United Kingdom**Environment****United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

United Kingdom - Substances Contained in Dangerous Substances or Preparations

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

Other**United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

United Kingdom - List of Dangerous Substances in Water

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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

• Air	132259-10-0	Not Listed
• Propane	74-98-6	Not Listed

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
- R12 - Extremely flammable.

Last Revision Date

- 17/January/2014

Preparation Date

- 17/January/2014

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
