Safety Data Sheet



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

1.1 Product identifier

Product Name

Flammable Gas Mixture Containing Hydrogen (>2.93%) and

Argon (Balance)

Product Code

• MSDS No.: 30024

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

Relevant identified use(s) • For general analyitical/synthetic chemical uses.

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

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 • P403 - 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

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

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

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

 This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. 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	%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Hydrogen	CAS:1333-74-0 EC Number:215- 605-7 EU Index:001-001- 00-9	> 2.93%	NDA	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.	NDA		
Argon	CAS:7440-37-1 EC Number:231- 147-0	0% TO 97.07%	NDA	EU DSD/DPD: Not Classified EU CLP: Self Classified - Press Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.	Balance		

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.

Eve

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 overexposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • 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 directions.

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.

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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.

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

Exposure Limits/Guidelines

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

Exposure Control Notations

Portugal

•Hydrogen (1333-74-0): Simple Asphyxiants: (Simple Asphyxiant)

•Argon (7440-37-1): Simple Asphyxiants: (Simple Asphyxiant)

Ireland

Hydrogen (1333-74-0): Simple Asphyxiants: (Asphyxiant)

•Argon (7440-37-1): Simple Asphyxiants: (Asphyxiant)

Spain

•Hydrogen (1333-74-0): Simple Asphyxiants: (simple asphyxiant)

Argon (7440-37-1): 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.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless compressed gas with no odor.
Color	Colorless	Odor	Odorless
Odor Threshold	None		
General Properties		-	·
Boiling Point	-185.9 C(-302.62 F) Argon	Melting Point	-189.2 C(-308.56 F) Argon
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	0.103 lb(s)/ft³ @ 21.1 C(69.98 F) Argon
Water Solubility	0.056 % @ 0 C(32 F) Argon	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility	•		

Vapor Pressure	Not relevant	Vapor Density	1.38 Air=1 Argon	
Evaporation Rate	Not relevant			
Flammability				
Flash Point	Data lacking	UEL	75 % Hydrogen	
LEL	4.5 % Hydrogen	Autoignition	500 C(932 F)	
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

• Hydrogen is incompatible with strong oxidizers (i.e. chlorine, bromine, pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride).

10.6 Hazardous decomposition products

 The components of this product do not decompose, per se, but may react with other compounds in the heat of a fire.

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

Potential Health Effects Inhalation

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)

No data available

No data available

Chronic (Delayed)

Chronic (Delayed) Ingestion

Acute (Immediate)

Acute (Immediate) **Chronic (Delayed)**

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

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

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 (Hydrogen, Argon)	2.1	NDA	NDA
TDG	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S.(Hydrogen, Argon)	2.1	NDA	NDA
IMO/IMDG	UN1954	COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)	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	Component CAS MA NJ PA					
Argon	7440-37-1	Yes	Yes	Yes		
Hydrogen	1333-74-0	Yes	Yes	Yes		

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Argon	7440-37-1	Yes	No	Yes	Yes	No
Hydrogen	1333-74-0	Yes	No	Yes	Yes	No
			Inventory (Co	n't.)		
Component	Component CAS Japan ENCS Korea KECL TSCA					
Argon	7440	0-37-1	No	Yes	Yes	
Hydrogen	1333	3-74-0	No	Yes		Yes

Canada

1333-74-0	A, B1
7440-37-1	Α
1333-74-0	Not Listed
7440-37-1	Not Listed
1333-74-0	Not Listed
7440-37-1	Not Listed
	7440-37-1 1333-74-0 7440-37-1 1333-74-0

China

nvironment		
China - Ozone Depleting Substances - First Schedule		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
China - Ozone Depleting Substances - Second Schedule		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
China - Ozone Depleting Substances - Third Schedule		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed

Other China - Annex I & II - Controlled Chemicals Lists		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
China - Dangerous Goods List		
• Hydrogen	1333-74-0	(compressed or refrigerated liquid)
• Argon	7440-37-1	(compressed or refrigerated liquid)
China - Export Control List - Part I Chemicals		
Hydrogen	1333-74-0	Not Listed

• Argon	7440-37-1	Not Listed
Europe		
Other		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification • Hydrogen	1333-74-0	F+; R12
Argon	7440-37-1	Not Listed
Aigon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
Hydrogen	1333-74-0	Not Listed
Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Hydrogen	1333-74-0	F+ R:12 S:(2)-9-16-33
Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
• Hydrogen	1333-74-0	S:(2)-9-16-33
• Argon	7440-37-1	Not Listed
, ngo		THE LISTON
Germany		
Environment		
Germany - TA Luft - Types and Classes	1333-74-0	Not Listed
HydrogenArgon	7440-37-1	Not Listed
Aigon	7440-37-1	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		ID Novel on 744 and accessioned
Hydrogen	1333-74-0	ID Number 741, not considered hazardous to water
		ID Number 1348, not
• Argon	7440-37-1	considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
,go		
Germany - Water Classification (VwVwS) - Annex 3		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
└────────────────────────────────────		
Germany - Specifically Regulated Chemicals in TRGS		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed

Portugal

Other

Portugal - Prohibited Substances

Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed

United Kingdom

Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air			
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
Other United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review		
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
United Kingdom - List of Dangerous Substance	s in Water		
Hydrogen	1333-74-0	Not Listed	
Argon	7440-37-1	Not Listed	

United States

	1333-74-0	Not Listed
Argon	7440-37-1	Not Listed
S OSHA - Specifically Regulated Chemicals		
Hydrogen	1333-74-0	Not Listed
Argon	7440-37-1	Not Listed

- Algori	1770-31-1	Not Listed	
Environment			
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants			
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities	S		
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities			
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA R	RQs		
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs			
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	
U.S CERCLA/SARA - Section 313 - Emission Reporting			
Hydrogen	1333-74-0	Not Listed	
• Argon	7440-37-1	Not Listed	

U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Hydrogen	1333-74-0 N	ot Listed
• Argon	7440-37-1 N	ot Listed

United States - California

J.S California - Proposition 65 - Carcinogens List		
• Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
• Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
• Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed

United States - Pennsylvania

abor ————————————————————————————————————		
U.S Pennsylvania - RTK (Right to Know) - Environ	mental Hazard List	
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special	Hazardous Substances	
Hydrogen	1333-74-0	Not Listed
• Argon	7440-37-1	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

- 09/September/2014
- 09/September/2014
- 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

Preparation Date: 09/September/2014 Revision Date: 09/September/2014