# Safety Data Sheet



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

1.1 Product identifier	
	Propane (1 - 1000 PPM) in Nitrogen (Balance) M-23451/E-1
Floauct Code	MI-23431/E-1
1.2 Relevant identified use	es 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
Telephone (Technical)	2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com 713-896-2896
Telephone (Technical)	800-819-1704
1.4 Emergency telephone	number
Manufacturar	

# Manufacturer800-424-9300 - CHEMTRECManufacturer+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	
	isk phrases  No label element(s) required
2.3 Other Haz	ds
CLP	<ul> <li>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.</li> </ul>
DSD/DPD	<ul> <li>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 not considered dangerous.</li> </ul>

## 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 Simple Asphyxiant
- 2.2 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

- 2.3 Other hazards
  - 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

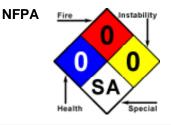


Compressed Gas - A

# 2.3 Other hazards WHMIS

 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		
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.		
Nitrogen	CAS:7727-37-9 EINECS:231-783-9	Balance	EU DSD/DPD: Not Classified EU CLP: Self Classified: Press. Gas - Comp., H280 OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.		

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	<ul> <li>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.</li> </ul>				
Skin	<ul> <li>Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.</li> </ul>				
Еуе	<ul> <li>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.</li> </ul>				
Ingestion	<ul> <li>Ingestion is not considered a potential route of exposure.</li> </ul>				
4.2 Most important sym	nptoms and effects, both acute and delayed				
	<ul> <li>Refer to Section 11 - Toxicological Information.</li> </ul>				
4.3 Indication of any im	mediate medical attention and special treatment needed				
Notes to Physician	<ul> <li>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.</li> </ul>				
4.4 Other information					
	<ul> <li>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</li> </ul>				

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

Media

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

Unsuitable Extinguishing No data available

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion** Containers may explode when heated. Hazards 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. 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**

#### 6.1 Personal precautions, protective equipment and emergency procedures

 Do not touch damaged containers or spilled material unless wearing appropriate **Personal Precautions** protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry. Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of **Emergency Procedures** 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 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	<ul> <li>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.</li> </ul>
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Ventilate the area.

## 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. 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.

## 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								
	ACGIH	Ca	anada Ontario	Canada Quebec		Germany DFG	Germany TRGS		
Propane	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000	00 ppm TWA 1000 ppm TWAEV; 1800 mg/m3 TWAEV No		Not established	1000 ppm TWA AGW (exposure factor 4); 1800 mg/m3 TWA AGW (exposure factor 4)		
(74-98-6)	Ceilings	Not established	Not	established	Not	established	4000 ppm Peak; 7200 mg/m3 Peak	Not established	
	MAKs	Not established	Not	established	Not established		1000 ppm TWA MAK; 1800 mg/m3 TWA MAK	Not established	
		Ex	pos	ure Limits/Gui	ideli	nes (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/m3 TWA		1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA [VLE- MP]	
	Exposure Limits/Guidelines (Con't.)								
				Result		Spain			
Propane (74-98-6)				TWAs		1000 ppm TWA [\ ED]	/LA-		

#### **Exposure Control Notations**

#### Portugal

•Nitrogen (7727-37-9): Simple Asphyxiants: (Simple Asphyxiant) Ireland

Propane (74-98-6): Simple Asphyxiants: (Asphyxiant) | Simple Asphyxiants: (Asphyxiant) Spain
Nitrogen (7727-37-9): Simple Asphyxiants: (simple 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.					
<b>Personal Protective Equipment</b>						
Respiratory •	Standard EN 149. Use a NIOS	H/MSH/	s found in 29 CFR 1910.134 or European A or European Standard EN 149 approved ded or symptoms are experienced.			
Eye/Face •	Wear safety glasses.	Wear safety glasses.				
Skin/Body •	Wear leather gloves when hand	dling cy	linders.			
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 Governm	nental Industrial Hygiene	OSHA	= Occupational Safety and Health Administration			
MAK = Maximale Arbeitsplatz Konzentrat	tion is the maximum permissible	TWAEV	/=Time-Weighted Average Exposure Value			
NIOSH = National Institute of Occupational	Safety and Health	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	-196 C(-320.8 F) Nitrogen	Melting Point	-210 C(-346 F) Nitrogen
Decomposition Temperature	Data lacking	pН	Not relevant
Specific Gravity/Relative Density	0.967 Water=1 Nitrogen	Water Solubility	1.485 cm3/100cm3
Viscosity	Data lacking	Explosive Properties	Not explosive.
Oxidizing Properties:	Not an oxidizing gas.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	0.968 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**

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

# **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	<ul> <li>Inhalation, Skin, Eye</li> </ul>
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	No data available
Acute (Immediate)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Chronic (Delayed)	• Under normal conditions of use, no health effects are expected.
Eye	
Acute (Immediate)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Chronic (Delayed)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Ingestion	
Acute (Immediate)	<ul> <li>Ingestion is not anticipated to be a likely route of exposure to this product.</li> </ul>
Chronic (Delayed)	<ul> <li>Ingestion is not anticipated to be a likely route of exposure to this product.</li> </ul>
Carcinogenic Effects	<ul> <li>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.</li> </ul>

# 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

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

# **12.6 Other adverse effects**

• Material data lacking.

## 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 (Nitrogen, Propane)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Propane)	2.2	NDA	NDA
IMO/IMDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen, Propane)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s (Nitrogen, 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

**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)

Not relevant.

State Right To Know				
Component	CAS	MA	NJ	PA
Nitrogen	7727-37-9	Yes	Yes	Yes
Propane	74-98-6	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Nitrogen	7727-37-9	Yes	No	Yes	Yes	No
Propane	74-98-6	Yes	No	Yes	Yes	No
			Inventory (Co	n't.)		
Component			CAS	TS	6CA	
Nitrogen		77	727-37-9	Y	es	

opane	74-98-6	Yes	
anada			
abor Canada - WHMIS - Classification	s of Substances		
Propane		74-98-6	A, B1
Nitrogen		7727-37-9	A
Canada - WHMIS - Ingredient Dis	sclosure List		
Propane		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed
Invironment			
Canada - 2004 NPRI (National Pol	lutant Release Inventory)	74.00.0	
Propane     Nitragon		74-98-6	Part 5 Substance
Nitrogen		7727-37-9	Not Listed
Canada - 2005 NPRI (National Pol	lutant Release Inventory)		
Propane		74-98-6	Part 5 Substance
Nitrogen		7727-37-9	Not Listed
Canada - CEPA - Greenhouse Ga	ses Subject to Mandatory Reporting		
Propane		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed
Canada - CEPA - Priority Substar	ices List		
Propane		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed
Canada - DWQ (Drinking Water Q	uality) - IMACs		
Propane		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed
Other			
Canada - Accelerated Reduction/	Elimination of Toxics (ARET)	74.00.0	Net Listed
Propane     Nitrogon		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed
anada New Brunswick			
Environment Canada - New Brunswick - Ozono	e Depleting Substances - Schedule A		
Propane		74-98-6	Not Listed
Nitrogen		7727-37-9	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B
• Propane

 • Propane
 74-98-6
 Not Listed

 • Nitrogen
 7727-37-9
 Not Listed

# China

Environment China - Ozone Depleting Substances - First Schedule	
• Propane	74-98-6 Not Listed

• Nitrogen	7727-37-9 No	ot Listed
China - Ozone Depleting Substances - Second Schedule		
Propane	74-98-6 No	ot Listed
Nitrogen	7727-37-9 No	ot Listed
China - Ozone Depleting Substances - Third Schedule		
• Propane	74-98-6 No	ot Listed
Nitrogen	7727-37-9 No	ot Listed

other China - Annex I & II - Controlled Chemicals Lists		
Propane	74-98-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
China - Dangerous Goods List		
Propane	74-98-6	
• Nitrogen	7727-37-9	(compressed or refrigerated liquid)
China - Export Control List - Part I Chemicals		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed

## Europe

Propane	74-98-6	F+; R12
• Nitrogen	7727-37-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Conc	centration Limits	
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labe	lling	
Propane	74-98-6	F+ R:12 S:(2)-9-16
Nitrogen	7727-37-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes	s - Substances and Preparations	
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safet	ty Phrases	
• Propane	74-98-6	S:(2)-9-16
Nitrogen	7727-37-9	Not Listed

### Germany

Environment Germany - TA Luft - Types and Classes			
Propane	74-98-6	Not Listed	
• Nitrogen	7727-37-9	Not Listed	
Germany - Water Classification (VwVwS) - Annex 1			

	- / 00 0	ID Number 560, not considered
• Propane	74-98-6	hazardous to water ID Number 1351, not
• Nitrogen	7727-37-9	considered hazardous to water
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
- Other		
Germany - Specifically Regulated Chemicals in TRGS	- /	
• Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
Portugal		
Other Portugal - Prohibited Substances		
Propane	74-98-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
United Kingdom		
Environment United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Release	s to Air	
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
United Kingdom - Substances Contained in Dangerous Substances or Prep		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
Other		
United Kingdom - Workplace Exposure Limits (WELs) - Substances in Revie		Notlistod
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
United Kingdom - List of Dangerous Substances in Water		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
United States		
Labor		

U.S OSHA - Process Safety Management - Highly Hazardous Chemicals	5		
Propane	74-98-6	Not Listed	
Nitrogen	7727-37-9	Not Listed	
U.S OSHA - Specifically Regulated Chemicals			
Propane	74-98-6	Not Listed	
Nitrogen	7727-37-9	Not Listed	
			E 11 (110)

Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
• Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Propane	74-98-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Propane	74-98-6	Not Listed
• Nitrogen	7727-37-9	Not Listed

# **United States - California**

Environment U.S California - Proposition 65 - Carcinogens List		
Propane	74-98-6	Not Listed
• Nitrogen	7727-37-9	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Propane	74-98-6	Not Listed
Nitrogen	7727-37-9	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
• Propane	74-98-6	Not Listed
aparetian Data: 17/ Januar/2014		t ELL CL D/DEACH Language: English (LIS

Nitrogen 7727-37-9 Not Listed

#### **United States - Pennsylvania**

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard	List		
Propane	74-98-6	Not Listed	
Nitrogen	7727-37-9	Not Listed	
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Sul	ostances		
Propane	74-98-6	Not Listed	
Nitrogen	7727-37-9	Not Listed	

## **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

Section	16 - Other	Information
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#### Relevant Phrases (code & full text)

- H220 Extremely flammable gas
  - R12 Extremely flammable.
- 17/January/2014
- 17/January/2014
- Preparation Date Disclaimer/Statement of Liability
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Key to abbreviations NDA = No Data Available

Last Revision Date