Safety Data Sheet



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

1.1 Product identifier

Product Name

• 2-Butoxyethanol (100 ppb), Nitrogen (Balance) [1 Component in

Nitrogen]

Product Code

• MSDS No. 90051

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

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 EU Directive 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 • Classification criteria not met

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 elements required

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.
 This preparation is not considered dangerous according to European Directive 1999/45/EC.

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

Precautionary statements

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

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

 This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces.
 In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

 Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

	Hazardous Components							
Chemical Name	Identifiers	%(weight)	Regulation/Directive		Comments			
Nitrogen	CAS:7727-37-9 EINECS:231-783- 9	> 99%	NDA	EU DSD/DPD: Not Classified - Classification criteria not met EU CLP: Self Classified - Press. Gas - Comp. H280 OSHA HCS 2012: Press. Gas - Comp; Simple asphyxiant	Balance			
Ethylene glycol monobutyl ether	CAS :111-76-2 EC Number :203- 905-0	na	Skin-Rabbit LD50 • 220 mg/kg Inhalation-Rat LC50 • 2900 mg/m³ 7 Hour (s) Ingestion/Oral-Rat LD50 • 250 mg/kg	EU DSD/DPD: Annex I - Xn; R20/21/22 Xi; R36/38 EU CLP: Annex VI - Acute Tox. 4, H332; Acute Tox. 4, H312; Acute Tox. 4, H302; Eye Irrit. 2 H319; Skin Irrit. 2, H315 OSHA HCS 2012: Acute Tox. 3 (Skin); Acute Tox. 3 (Oral); Eye Irrit. 2; STOT SE 3: Resp. Irrit.	100 ppb			

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

 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

As this product is a gas, refer to the inhalation section.

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.

Unsuitable Extinguishing Media

None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Contains gas under pressure.
 Container may explode in a fire or if 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.

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

Personal Precautions

 Avoid breathing gas. Ventilate the area before entry. In case of insufficient ventilation, wear suitable respiratory equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

 Evacuate area. Keep unauthorized personnel away. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)

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. 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									
	Result	ACGIH	Canada Ontario	Canada Quebec	Germany DFG	Germany TRGS				
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	20 ppm TWA	20 ppm TWAEV; 97 mg/m3 TWAEV	Not established	10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4); 49 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 4)				
	Ceilings	Not established	Not established	Not established	20 ppm Peak; 98 mg/m3 Peak	Not established				

	MAKs	Not established	Not established	Not established	10 ppm TWA MAK; 49 mg/m3 TWA MAK	Not established	
Exposure Limits/Guidelines (Con't.)							
Result NIOSH OSHA							
Ethylene glycol monobutyl ether (111-76-2)		TWAs	5 ppm TWA; 24 mg/	/m3	50 ppm TWA; 240 mg/m3 TWA		

Exposure Control Notations

Germany TRGS

•Ethylene glycol monobutyl ether (111-76-2): Skin: (skin notation)

Germany DFG

•Ethylene glycol monobutyl ether (111-76-2): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

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

Pictograms



Respiratory

 Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

Wear safety glasses.

Skin/Body

Wear leather gloves when handling cylinders.

Environmental Exposure Controls

 Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

MSHA = Mine Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWAEV = Time-Weighted Average Exposure Value

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

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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			
Taste	Data lacking	Particulate Type	Not relevant			
Particulate Size	Not relevant	Aerosol Type	Not relevant			

Odor Threshold	Data lacking	Physical and Chemical Properties	Data lacking
General Properties			"
Boiling Point	-320.4 F(-195.7778 C) Nitrogen	Melting Point	-346 F(-210 C) Nitrogen
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
рН	Data lacking	Specific Gravity/Relative Density	0.81 Nitrogen
Density	0.072 lbs/gal Nitrogen	Bulk Density	Data lacking
Water Solubility	Data lacking	Solvent Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant.		
Volatility	-		
Vapor Pressure	Data lacking	Vapor Density	0.967 Air=1 Data lacking Nitrogen
Evaporation Rate	Data lacking	VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking	Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion (ΔHc)	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant	Flammability (solid, gas)	Not flammable.
Environmental	•		"
Half-Life	Data lacking	Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking	Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking	Biochemical Oxygen Demand BOD/BOD5	Data lacking
Chemical Oxygen Demand	Data lacking	Persistence	Data lacking
Degradation	Data lacking		

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

Under normal conditions of storage and use, hazardous reactions 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

Component Name	CAS	Data
Ethylene glycol monobutyl ether (na)	111-76-2	Acute Toxicity: orl-rat LD50:917 mg/kg; orl-rat LD50:250 mg/kg; orl-hmn LDLo:143 mg/kg; ihl-rat LC50:450 ppm/4H; Irritation: eye-rbt 100 mg/24H MOD

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, Skin, Eye, Ingestion

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)

No data available

Skin

Acute (Immediate)

Chronic (Delayed)

Acute (Immediate)

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

Carcinogenic Effects

No data available

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

- Under normal conditions of use, no health effects are expected.
- No data available
- Ingestion will not occur due to the physical form of this product.
- No data available
- The components of this gas mixture 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.

Key to abbreviations

LD = Lethal Dose MOD = Moderate

LC = Lethal Concentration

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)	2.2	NDA	NDA
TDG	UN1956	COMPRESSED GAS N.O.S. (Nitrogen)	2.2	NDA	NDA
IMO/IMDG	UN1956	COMPRESSED GAS, N.O.S. (Nitrogen)	2.2	NDA	NDA
IATA/ICAO	UN1956	Compressed gas, n.o.s. (Nitrogen)	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						
Nitrogen	7727-37-9	Yes	Yes	Yes		
Ethylene glycol	111-76-2	Ves	Yes	Yes		
monobutyl ether	111-76-2 Yes		Yes	Yes		

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Nitrogen	7727-37-9	Yes	No	Yes	No	Yes

Ethylene glycol monobutyl ether	Yes	No	Yes	No	Yes
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Canada

Labor

Canada - WHMIS - Classifications of Substances

• Ethylene glycol monobutyl ether 111-76-2 na B3, D1A, D2B

• Nitrogen 7727-37-9 > 99% A

Canada - WHMIS - Ingredient Disclosure List

• Ethylene glycol monobutyl ether 111-76-2 na 1 %

• Nitrogen 7727-37-9 > 99% Not Listed

Environment

Canada - CEPA - Priority Substances List

• Ethylene glycol monobutyl 111-76-2 na Priority Substance List 2 (substance considered toxic, added to CEPA's Schedule 1, List of

ether Toxic Substances)

• Nitrogen 7727-37-9 > 99% Not Listed

Europe

Other

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

• Ethylene glycol monobutyl ether 111-76-2 na Xn; R20/21/22 Xi; R36/38

• Nitrogen 7727-37-9 > 99% Not Listed

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

Ethylene glycol monobutyl ether 111-76-2 na Xn R:20/21/22-36/38 S:(2)-36/37-46

• Nitrogen 7727-37-9 > 99% Not Listed

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

- Ethylene glycol monobutyl ether 111-76-2 na S:(2)-36/37-46
- Nitrogen 7727-37-9 > 99% Not Listed

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United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

Environment

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

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

Ethylene glycol monobutyl ether 111-76-2 na Not Listed
 Nitrogen 7727-37-9 > 99% Not Listed

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

• Ethylene glycol monobutyl ether 111-76-2 na Not Listed

• Nitrogen 7727-37-9 > 99% Not Listed

U.S. - EPA - Designated Generic Categories - Certain Glycol Ethers

• Ethylene glycol monobutyl ether 111-76-2 na

• Nitrogen 7727-37-9 > 99% Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- Ethylene glycol monobutyl ether 111-76-2 na Not Listed
- Nitrogen 7727-37-9 > 99% Not Listed
- U.S. California Proposition 65 Developmental Toxicity
- Ethylene glycol monobutyl ether 111-76-2 na Not Listed
- Nitrogen 7727-37-9 > 99% Not Listed
- U.S. California Proposition 65 Maximum Allowable Dose Levels (MADL)
- Ethylene glycol monobutyl ether 111-76-2 na Not Listed
- Nitrogen 7727-37-9 > 99% Not Listed
- U.S. California Proposition 65 No Significant Risk Levels (NSRL)
- Ethylene glycol monobutyl ether 111-76-2 na Not Listed
- Nitrogen 7727-37-9 > 99% Not Listed
- U.S. California Proposition 65 Reproductive Toxicity Female
- Ethylene glycol monobutyl ether 111-76-2 na Not Listed
- Nitrogen 7727-37-9 > 99% Not Listed
- U.S. California Proposition 65 Reproductive Toxicity Male

Ethylene glycol monobutyl ether 111-76-2 na Not Listed
 Nitrogen 7727-37-9 > 99% Not Listed

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United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Ethylene glycol monobutyl ether 111-76-2 na Not Listed
 Nitrogen 7727-37-9 > 99% Not Listed

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

Ethylene glycol monobutyl ether 111-76-2 na Not Listed
 Nitrogen 7727-37-9 > 99% Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.

Last Revision Date Preparation Date 10/August/2012

Disclaimer/Statement of Liability

10/August/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 abbreviationsNDA = No Data Available