

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/23/2015 Version: 2.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : Halothane (3.00% - 7.00%), Oxygen (23.51% - 92.99%) in Nitrogen

Product code : HC-2003-03484

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

Use of the substance/mixture : Test gas/Calibration gas.

# 1.3. Details of the supplier of the safety data sheet

Air Liquide 2700 Post Oak Boulevard Houston, TX 77056 - USA T 1-800-819-1704 www.us.airliquide.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

 Ox. Gas 1
 H270

 Compressed gas
 H280

 Eye Dam. 1
 H318

 Repr. 2
 H361

 STOT SE 3
 H335

Full text of H-phrases: see section 16

### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)

Precautionary statements (GHS-US)



 $\Diamond$ 

GHS04







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H270 - May cause or intensify fire; oxidizer

H280 - Contains gas under pressure; may explode if heated

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child (Inhalation)

CGA-HG22 - Corrosive to the respiratory tract.

: P202 - Do not handle until all safety precautions have been read and understood

P220 - Keep/Store away from combustible materials, clothing

P244 - Keep reduction valves/valves and fittings free from oil and grease

P261 - Avoid breathing gas

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective gloves, protective clothing

P284 - Wear respiratory protection. Consult respiratory device supplier's product information

for the selection of the appropriate device.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor

P403 - Store in a well-ventilated place

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

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CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG14 - Approach suspected leak area with caution

CGA-PG20 - Use only with equipment of compatible materials of construction

CGA-PG21 - Open valve slowly

CGA-PG22 - Use only with equipment cleaned for oxygen service

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

# SECTION 3: Composition/information on ingredients

# 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Oxygen	(CAS No) 7782-44-7	23.51 - 92.99	Ox. Gas 1, H270 Compressed gas, H280
Nitrogen	(CAS No) 7727-37-9	0.01 - 73.49	Compressed gas, H280
Halothane	(CAS No) 151-67-7	3 - 7	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H336 STOT SE 3, H335

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Adverse effects not expected from this product.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Corrosive to the respiratory tract.

Symptoms/injuries after skin contact : Adverse effects not expected from this product.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous : Not known.

administration

Chronic symptoms : Suspected of damaging fertility. Suspected of damaging the unborn child.

# 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use water jet to extinguish.

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

Fire hazard : The product is not flammable.

Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire

and increasing risk of burns and injuries.

Reactivity : None known.

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#### 5.3. Advice for firefighters

Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray

or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Do not enter fire area without proper protective equipment, including respiratory

protection.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment consistent with the site emergency plan.

Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent

premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep

upwind.

#### 6.1.2. For emergency responders

Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire

fighters. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate and limit access. Ventilate area.

### 6.2. Environmental precautions

Try to stop release if safe to do so.

#### 6.3. Methods and material for containment and cleaning up

For containment : Try to stop release if safe to do so.

Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

#### 6.4. Reference to other sections

See also Sections 8 and 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder

pressure. Close valve after each use and when empty.

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or

in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in

use. Protect cylinder from physical damage. Store in well ventilated area. Store locked up.

Incompatible products : None known.

Incompatible materials : Flammable materials. Combustible materials. Reducing agents.

#### 7.3. Specific end use(s)

See Section 1.2.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Halothane (3.00% - 7.00%), Oxygen (23.51% - 92.99%) in Nitrogen		
ACGIH	Not applicable	
OSHA	Not applicable	
Halothane (151-67-7)		
ACGIH	Not applicable	
OSHA	Not applicable	

Oxygen	(7782-44-7)
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ACGIH	Not applicable

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Oxygen (7782-44-7)	
OSHA	Not applicable
Nitrogen (7727-37-9)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages.

Consider work permit system e.g. for maintenance activities.

Hand protection : Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection. Wear

chemically resistant protective gloves when making or breaking process connections.

Eye protection : Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or

breaking transfer connections. 29 CFR 1910.133: Eye and Face Protection.

Skin and body protection : Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.

Respiratory protection : Wear a respirator when performing non-routine tasks not limited to line breaking or sampling.

Wear a respirator during courting operations if determined to be necessary during a process-

Wear a respirator during routine operations if determined to be necessary during a processspecific review. Consult respirator suppliers' product information or their representatives for the

selection of the appropriate respirator.

Thermal hazard protection : None necessary during normal and routine operations.

Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for

specific methods for waste gas treatment.

Other information : Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Clear, colorless gas.

Color : Colorless Odor : Sweet

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available

Flash point : Not applicable - not flammable

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : See Section 2.1 and 2.2

Explosion limits : Not applicable - not flammable

Explosive properties : Not applicable - not flammable.

Oxidizing properties : Not combustible but enhances combustion of other substances. May cause or intensify fire;

oxidizer.

Vapor pressure : No data available
Relative density : No data available
Relative vapor density at 20 °C : No data available

Molecular mass : Not applicable for gas-mixtures.

Relative gas density Heavier than air Solubility No data available Log Pow : No data available Log Kow No data available Auto-ignition temperature No data available Decomposition temperature : No data available Viscosity No data available : No data available Viscosity, kinematic

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Viscosity, dynamic : No data available

9.2. Other information

Additional information : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None known.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

May react violently with reducing agents. Can form explosive mixtures with flammable materials.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Combustible materials. Flammable materials. Reducing agents.

#### 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

Acute toxicity : Not classified

Halothane (151-67-7)	
LD50 oral rat	5450 μl/kg
LC50 inhalation rat (mg/l)	120 mg/l/4h
LC50 inhalation rat (ppm)	29000 ppm/4h
ATE US (gases)	4500.000 ppmV/4h
ATE US (dust, mist)	1.500 mg/l/4h

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CIXVOR	11 (//0/-44-/)	

LC50 inhalation rat (ppm) 800000 ppm/4h

# Nitrogen (7727-37-9)

LC50 inhalation rat (ppm) 820000 ppm/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child (Inhalation).

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Corrosive to the respiratory tract.

Symptoms/injuries after skin contact : Adverse effects not expected from this product.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.

Symptoms/injuries upon intravenous

administration

: Not known.

Chronic symptoms : Suspected of damaging fertility. Suspected of damaging the unborn child.

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# **SECTION 12: Ecological information**

#### **Toxicity**

No additional information available

# Persistence and degradability

Oxygen (7782-44-7)	
Persistence and degradability  No ecological damage caused by this product.	
Nitrogen (7727-37-9)	
Persistence and degradability	No ecological damage caused by this product.

#### 12.3. **Bioaccumulative potential**

Oxygen (7782-44-7)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No ecological damage caused by this product.	

#### **Mobility in soil** 12.4.

Oxygen (7782-44-7)	
Ecology - soil No ecological damage caused by this product.	
Nitrogen (7727-37-9)	
Ecology - soil	No ecological damage caused by this product.

#### 12.5. Other adverse effects

Effect on ozone layer : No known effects from this product.

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

# Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. Do not discharge into any place where its

accumulation could be dangerous. Ensure that the emission levels from local regulations or

operating permits are not exceeded.

Waste disposal recommendations Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more

guidance on suitable disposal methods.

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3156 Compressed gas, oxidizing, n.o.s. (Oxygen, Nitrogen)

UN-No.(DOT) : UN3156

Proper Shipping Name (DOT) : Compressed gas, oxidizing, n.o.s.

: 2.2 - Non-flammable gas Hazard labels (DOT)

5.1 - Oxidizer



DOT Packaging Non Bulk (49 CFR 173.xxx) : 302 DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : A14 - This material is not authorized to be transported as a limited quantity or consumer

commodity in accordance with 173.306 of this subchapter when transported aboard an aircraft.

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DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel

carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger

vessels in which the limiting number of passengers is exceeded.

**Additional information** 

Other information : No supplementary information available.

**ADR** 

No additional information available

Transport by sea

UN-No. (IMDG) : 3156

Proper Shipping Name (IMDG) : COMPRESSED GAS, OXIDIZING, N.O.S. Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

Air transport

UN-No. (IATA) : 3156

Proper Shipping Name (IATA) : COMPRESSED GAS, OXIDIZING, N.O.S.

Class (IATA) : 2

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

# Oxygen (7782-44-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Nitrogen (7727-37-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

#### CANADA

No additional information available

Oxygen (7782-44-7)		
Listed on the Canadian DSL (Dome	Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification Class A - Compressed Gas Class C - Oxidizing Material		
Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas	

# **EU-Regulations**

No additional information available

# Oxygen (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Nitrogen (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

# **National regulations**

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### Oxygen (7782-44-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### Nitrogen (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

# Oxygen (7782-44-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Nitrogen (7727-37-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **SECTION 16: Other information**

Indication of changes

- : Revised safety data sheet in accordance with OSHA final rule on GHS implementation
  - promulgated March 26, 2012.

Other information

: This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.

# Full text of H-phrases:

Acute Tox. 4 (Inhalation)  Compressed gas  Eye Dam. 1  Ox. Gas 1  Repr. 2  Skin Irrit. 2  STOT SE 3  STOT SE 3  STOT SE 3  H270  H280  H280  H335  H336  May cause serious eye damage  Gases under pressure Compressed gas  Serious eye damage/eye irritation Category 1  Oxidizing gases Category 1  Reproductive toxicity Category 2  Skin corrosion/irritation Category 2  Skin corrosion/irritation Category 2  Specific target organ toxicity (single exposure) Category 3  Specific target organ toxicity (single exposure) Category 3  H270  May cause or intensify fire; oxidizer  Causes skin irritation  H318  Causes serious eye damage  H332  Harmful if inhaled  H335  May cause respiratory irritation  H336  May cause drowsiness or dizziness  H361  Suspected of damaging fertility or the unborn child		
Eye Dam. 1  Ox. Gas 1  Ox. Gas 1  Oxidizing gases Category 1  Repr. 2  Skin Irrit. 2  Skin corrosion/irritation Category 2  Stort SE 3  Specific target organ toxicity (single exposure) Category 3  STOT SE 3  Specific target organ toxicity (single exposure) Category 3  STOT SE 3  Specific target organ toxicity (single exposure) Category 3  H270  May cause or intensify fire; oxidizer  H280  Contains gas under pressure; may explode if heated  H315  Causes skin irritation  H318  Causes serious eye damage  H332  Harmful if inhaled  H335  May cause respiratory irritation  H336  May cause drowsiness or dizziness	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Ox. Gas 1  Repr. 2  Skin Irrit. 2  Skin corrosion/irritation Category 2  Stin Corrosion/irritation Category 2  Stin Corrosion/irritation Category 2  STOT SE 3  Specific target organ toxicity (single exposure) Category 3  STOT SE 3  Specific target organ toxicity (single exposure) Category 3  H270  May cause or intensify fire; oxidizer  H280  Contains gas under pressure; may explode if heated  H315  Causes skin irritation  H318  Causes serious eye damage  H332  Harmful if inhaled  H335  May cause respiratory irritation  H336  May cause drowsiness or dizziness	Compressed gas	Gases under pressure Compressed gas
Repr. 2 Skin Irrit. 2 Skin corrosion/irritation Category 2 Stin Corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H270 May cause or intensify fire; oxidizer H280 Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H270 May cause or intensify fire; oxidizer Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	Ox. Gas 1	Oxidizing gases Category 1
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H270 May cause or intensify fire; oxidizer Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	Repr. 2	Reproductive toxicity Category 2
STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H270 May cause or intensify fire; oxidizer Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	Skin Irrit. 2	Skin corrosion/irritation Category 2
H270 May cause or intensify fire; oxidizer H280 Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H280 Contains gas under pressure; may explode if heated H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315 Causes skin irritation H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	H270	May cause or intensify fire; oxidizer
H318 Causes serious eye damage H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	H280	Contains gas under pressure; may explode if heated
H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	H315	Causes skin irritation
H335 May cause respiratory irritation H336 May cause drowsiness or dizziness	H318	Causes serious eye damage
H336 May cause drowsiness or dizziness	H332	Harmful if inhaled
·	H335	May cause respiratory irritation
H361 Suspected of damaging fertility or the unborn child	H336	May cause drowsiness or dizziness
	H361	Suspected of damaging fertility or the unborn child

#### SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation'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 product 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.

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