# Halocarbon-23 (0.0001% - 20.0000%), Carbon Dioxide (3.0000% - 60.4999%), Nitrous Oxide (20.0000% - 77.4999%) in Oxygen

Safety Data Sheet

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

Date of issue: 04/03/2015 Version: 2.0

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

### 1.1. Product identifier

Product form : Mixture

Product name : Halocarbon-23 (0.0001% - 20.0000%), Carbon Dioxide (3.0000% - 60.4999%), Nitrous Oxide (20.0000% - 77.4999%) in Oxygen

Product code : HC-2004-03420

### 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

**Classification (GHS-US)**

| | |
|---|---|
| Ox. Gas 1 | H270 |
| Compressed gas | H280 |
| STOT SE 3 | H336 |

Full text of H-phrases: see section 16

### 2.2. Label elements

**GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS03 GHS04 GHS07

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
H336 - May cause drowsiness or dizziness
OSHA-H01 - May displace oxygen and cause rapid suffocation
CGA-HG03 - May increase respiration and heart rate

Precautionary statements (GHS-US) :
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
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
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)
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 | % | Classification (GHS-US) |
|---|---|---|---|
| Nitrous oxide | (CAS No) 10024-97-2 | 20 - 77.4999 | Ox. Gas 1, H270<br>Liquefied gas, H280<br>STOT SE 3, H336 |
| Oxygen | (CAS No) 7782-44-7 | 19.5 - 76.9999 | Ox. Gas 1, H270<br>Compressed gas, H280 |
| Carbon dioxide | (CAS No) 124-38-9 | 3 - 60.4999 | Liquefied gas, H280 |
| Trifluoromethane (R23) | (CAS No) 75-46-7 | 0.0001 - 20 | Liquefied gas, H280 |

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 : Adverse effects not expected from this product.

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 : May displace oxygen and cause rapid suffocation. May cause drowsiness or dizziness. May increase respiration and heart rate.

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

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

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

Symptoms/injuries upon intravenous administration : Not known.

Chronic symptoms : Adverse effects not expected from this product.

### 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.

### 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

| Halocarbon-23 (0.0001% - 20.0000%), Carbon Dioxide (3.0000% - 60.4999%), Nitrous Oxide (20.0000% - 77.4999%) in Oxygen | |
|---|---|
| ACGIH | Not applicable |
| OSHA | Not applicable |

| Trifluoromethane (R23) (75-46-7) | |
|---|---|
| ACGIH | Not applicable |
| OSHA | Not applicable |

| Carbon dioxide (124-38-9) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 5000 ppm |
| ACGIH | ACGIH STEL (ppm) | 30000 ppm |

| Carbon dioxide (124-38-9) | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (mg/m³) | 9000 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 5000 ppm |

| Nitrous oxide (10024-97-2) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| OSHA | Not applicable | |

| Oxygen (7782-44-7) | |
|---|---|
| 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.

Eye protection : Wear safety glasses with side shields. 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 : None necessary during normal and routine operations. See Sections 5 & 6.

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 : Slightly 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

Flash point : No Data Available

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 |
| Viscosity, kinematic | : | No data available |
| 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

| **Trifluoromethane (R23) (75-46-7)** | |
|---|---|
| LC50 inhalation rat (ppm) | 663000 ppm/4h |
| ATE US (gases) | 663000.000 ppmV/4h |

| **Carbon dioxide (124-38-9)** | |
|---|---|
| LC50 inhalation rat (ppm) | 820000 ppm/4h |

| **Nitrous oxide (10024-97-2)** | |
|---|---|
| LC50 inhalation rat (ppm) | 250000 ppm/4h |

| **Oxygen (7782-44-7)** | |
|---|---|
| LC50 inhalation rat (ppm) | 800000 ppm/4h |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Not classified |
| Serious eye damage/irritation | : | Not classified |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/injuries after inhalation | : | May displace oxygen and cause rapid suffocation. May cause drowsiness or dizziness. May increase respiration and heart rate. |
| Symptoms/injuries after skin contact | : | Adverse effects not expected from this product. |

| | |
|---|---|
| Symptoms/injuries after eye contact | : Adverse effects not expected from this product. |
| Symptoms/injuries after ingestion | : Ingestion is not considered a potential route of exposure. |
| Symptoms/injuries upon intravenous administration | : Not known. |
| Chronic symptoms | : Adverse effects not expected from this product. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Trifluoromethane (R23) (75-46-7) | |
|---|---|
| Persistence and degradability | No data available. |

| Carbon dioxide (124-38-9) | |
|---|---|
| Persistence and degradability | No ecological damage caused by this product. |

| Nitrous oxide (10024-97-2) | |
|---|---|
| Persistence and degradability | Not applicable for inorganic gases. |

| Oxygen (7782-44-7) | |
|---|---|
| Persistence and degradability | No ecological damage caused by this product. |

### 12.3. Bioaccumulative potential

| Trifluoromethane (R23) (75-46-7) | |
|---|---|
| Log Pow | 0.64 |
| Bioaccumulative potential | Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. |

| Carbon dioxide (124-38-9) | |
|---|---|
| BCF fish 1 | (no bioaccumulation) |
| Log Pow | 0.83 |
| Bioaccumulative potential | No ecological damage caused by this product. |

| Nitrous oxide (10024-97-2) | |
|---|---|
| Log Pow | Not applicable for inorganic gases. |
| Bioaccumulative potential | No data available. |

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

### 12.4. Mobility in soil

| Trifluoromethane (R23) (75-46-7) | |
|---|---|
| Ecology - soil | Because of its high volatility, the product is unlikely to cause ground or water pollution. |

| Carbon dioxide (124-38-9) | |
|---|---|
| Ecology - soil | No ecological damage caused by this product. |

| Nitrous oxide (10024-97-2) | |
|---|---|
| Ecology - soil | Because of its high volatility, the product is unlikely to cause ground or water pollution. |

| Oxygen (7782-44-7) | |
|---|---|
| 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 | : 1690.78 |

## SECTION 13: Disposal considerations

### 13.1. 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. (Nitrous Oxide, Oxygen)

UN-No.(DOT) : UN3156

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

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

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

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

Transport document description : UN 3156, 2.2 (5.1), (E)

Class (ADR) : 2 - Gases

Hazard identification number (Kemler No.) : 25

Classification code (ADR) : 1O

Hazard labels (ADR) : 2.2 - Non-flammable compressed gas
5.1 - Oxidizer


Orange plates :


Tunnel restriction code (ADR) : E

Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0

### Transport by sea

UN-No. (IMDG) : 3156
Proper Shipping Name (IMDG) : COMPRESSED GAS, OXIDIZING, N.O.S.
Class (IMDG) : 2 - 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

| **Trifluoromethane (R23) (75-46-7)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **Carbon dioxide (124-38-9)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **Nitrous oxide (10024-97-2)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **Oxygen (7782-44-7)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

### 15.2. International regulations

#### CANADA

| **Trifluoromethane (R23) (75-46-7)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class A - Compressed Gas |

| **Carbon dioxide (124-38-9)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class A - Compressed Gas |

| **Nitrous oxide (10024-97-2)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class A - Compressed Gas<br>Class C - Oxidizing Material<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| **Oxygen (7782-44-7)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class A - Compressed Gas<br>Class C - Oxidizing Material |

#### EU-Regulations

| **Trifluoromethane (R23) (75-46-7)** |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| **Carbon dioxide (124-38-9)** |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| **Nitrous oxide (10024-97-2)** |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| **Oxygen (7782-44-7)** |
|---|
| 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**

| Trifluoromethane (R23) (75-46-7) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |

| Carbon dioxide (124-38-9) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |

| Nitrous oxide (10024-97-2) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the Canadian IDL (Ingredient Disclosure List) |

| Oxygen (7782-44-7) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |

## 15.3. US State regulations

| Nitrous oxide (10024-97-2) | | | | |
|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No | Yes | Yes | No | |

| Trifluoromethane (R23) (75-46-7) |
|---|
| U.S. - New Jersey - Right to Know Hazardous Substance List |

| Carbon dioxide (124-38-9) |
|---|
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |

| Nitrous oxide (10024-97-2) |
|---|
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |

| Oxygen (7782-44-7) |
|---|
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>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:

| | |
|---|---|
| Compressed gas | Gases under pressure Compressed gas |
| Liquefied gas | Gases under pressure Liquefied gas |
| Ox. Gas 1 | Oxidizing gases Category 1 |
| 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 |
| H336 | May cause drowsiness or dizziness |

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.*