1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Liquefied Natural Gas
UN-Number: UN1972
Recommended Use: Industrial use.
Synonyms: LNG
Supplier Address*: Linde Gas North America LLC - Linde Merchant Production Inc. - Linde LLC
575 Mountain Ave.
Murray Hill, NJ 07974
Phone: 908-464-8100
www.lindeus.com

Linde Gas Puerto Rico, Inc.
Las Palmas Village
Road No. 869, Street No. 7
Catano, Puerto Rico 00962
Phone: 787-641-7445
www.pr.lindegas.com

Linde Canada Limited
5860 Chedworth Way
Mississauga, Ontario L5R 0A2
Phone: 905-501-1700
www.lindecanada.com

* May include subsidiaries or affiliate companies/divisions.

For additional product information contact your local customer service.

2. HAZARDS IDENTIFICATION

**DANGER!**

Emergency Overview

- Extremely flammable
- Extremely cold liquid and gas under pressure.
- May cause skin, eye, and respiratory tract irritation
- Asphyxiating at high concentrations
- May cause central nervous system depression
- Contents under pressure
- Keep at temperatures below 52°C / 125°F

Appearance: Colorless.
Physical State: Cryogenic Liquid.
Odor: Petroleum like

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential Health Effects

Principle Routes of Exposure

Inhalation.

Acute Toxicity

Inhalation

May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Simple asphyxiant. May cause suffocation by displacing the oxygen in the air. Exposure to oxygen-deficient atmosphere (<19.5%) may cause dizziness, drowsiness, nausea, vomiting, excess salivation, diminished mental alertness, loss of consciousness and death. Exposure to atmospheres containing 8-10% or less oxygen will bring about unconsciousness without warning and so quickly that the individuals cannot help or protect themselves. Lack of sufficient oxygen may cause serious injury or death.

Eyes

Contact with product may cause frostbite.

Skin

May cause frostbite.

Skin Absorption Hazard

No known hazard in contact with skin.

Ingestion

Not an expected route of exposure.

Chronic Effects

None known.

Aggravated Medical Conditions

Respiratory disorders.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Volume %</th>
<th>Chemical Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>62-93</td>
<td>$\text{CH}_4$</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>1-9</td>
<td>$\text{N}_2$</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1-7</td>
<td>$\text{C}_3\text{H}_8$</td>
</tr>
<tr>
<td>Ethane</td>
<td>74-84-0</td>
<td>3-11</td>
<td>$\text{C}_2\text{H}_6$</td>
</tr>
<tr>
<td>N-Butane</td>
<td>106-97-8</td>
<td>1-3</td>
<td>$\text{C}<em>4\text{H}</em>{10}$</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>1-3</td>
<td>$\text{C}<em>4\text{H}</em>{10}$</td>
</tr>
<tr>
<td>Helium</td>
<td>7440-59-7</td>
<td>&lt;2</td>
<td>He</td>
</tr>
<tr>
<td>Isopentane</td>
<td>78-78-4</td>
<td>&lt;1</td>
<td>$\text{C}<em>5\text{H}</em>{12}$</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>&lt;1</td>
<td>$\text{C}<em>5\text{H}</em>{12}$</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>&lt;1</td>
<td>$\text{CO}_2$</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye Contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If frostbite is suspected, flush eyes with cool water for 15 minutes and obtain immediate medical attention.

Skin Contact

Wash off immediately with plenty of water. If skin irritation persists, call a physician. For dermal contact or suspected frostbite, remove contaminated clothing and flush affected areas with lukewarm water. DO NOT USE HOT WATER. A physician should see the patient promptly if contact with the product has resulted in blistering of the dermal surface or in deep tissue freezing.
Inhalation

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF INHALATION OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. Conscious inhalation victims should be assisted to an uncontaminated area and inhale fresh air. If breathing is difficult, administer oxygen. Unconscious persons should be moved to an uncontaminated area and, as necessary, given artificial resuscitation and supplemental oxygen. Treatment should be symptomatic and supportive.

Ingestion

None under normal use. Get medical attention if symptoms occur.

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Extremely flammable.

Suitable Extinguishing Media

Dry chemical or CO2. Water spray or fog. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Hazardous Combustion Products

Carbon monoxide. Carbon dioxide (CO2).

Explosion Data

Sensitivity to Mechanical Impact

None

Sensitivity to Static Discharge

Yes.

Specific Hazards Arising from the Chemical

May form explosive mixtures with air. Continue to cool fire exposed cylinders until flames are extinguished. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Vapors from liquefied gas are initially heavier than air and spread along ground. Vapors may travel to source of ignition and flash back.

Protective Equipment and Precautions for Firefighters

If possible, stop the flow of gas. Do not extinguish the fire until supply is shut off as otherwise an explosive-ignition may occur. If the fire is extinguished and the flow of gas continues, use increased ventilation to prevent build-up of explosive atmosphere. Ventilation fans must be explosion proof. Use non-sparking tools to close container valves.

Use water spray to cool surrounding containers. Be cautious of a Boiling Liquid Evaporating Vapor Explosion, BLEVE, if flame is impinging on surrounding containers.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Monitor oxygen level.

Environmental Precautions

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent spreading of vapors through sewers, ventilation systems and confined areas.

Methods for Containment

Stop the flow of gas or remove cylinder to outdoor location if this can be done without risk. If leak is in container or container valve, contact the appropriate emergency telephone number in Section 1 or call your closest Linde location.

Methods for Cleaning Up

Return cylinder to Linde or an authorized distributor.
7. HANDLING AND STORAGE

Handling

Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Remove all sources of ignition. Use only in ventilated areas. "NO SMOKING" signs should be posted in storage and use areas.

Never attempt to lift a cylinder by its valve protection cap. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distance, use a cart designed to transport cylinders. Use equipment rated for cylinder pressure. Use backflow preventive device in piping.

Use an adjustable strap wrench to remove over-tight or rusted caps. Never insert an object (e.g. wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing leak to occur. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.

Never put cylinders into trunks of cars or unventilated areas of passenger vehicles. Never attempt to refill a compressed gas cylinder without the owner's written consent. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit.

For additional recommendations, consult Compressed Gas Association Pamphlets P-1, P-14, and Safety Bulletin SB-2.

Storage

Outside or detached storage is preferred. Protect from physical damage. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Keep at temperatures below 52°C / 125°F. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders from being stored for excessive periods of time. Always store and handle compressed gas cylinders in accordance with Compressed Gas Association, pamphlet CGA-P1, Safe Handling of Compressed Gases in Containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines
### Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH
--- | --- | --- | ---
Isopentane 78-78-4 | TWA: 600 ppm | TWA: 5000 ppm, TWA: 9000 mg/m³ (vacated) TWA: 10000 ppm, TWA: 18000 mg/m³ (vacated) STEL: 30000 ppm, STEL: 54000 mg/m³ | IDLH: 40000 ppm, TWA: 5000 ppm, TWA: 9000 mg/m³ (vacated) TWA: 18000 mg/m³, STEL: 30000 ppm, STEL: 54000 mg/m³ |
Carbon dioxide 124-38-9 | STEL = 30000 ppm, TWA: 5000 ppm | TWA: 5000 ppm, TWA: 9000 mg/m³ (vacated) TWA: 10000 ppm, TWA: 18000 mg/m³ (vacated) STEL: 30000 ppm, STEL: 54000 mg/m³ | IDLH: 40000 ppm, TWA: 5000 ppm, TWA: 9000 mg/m³ (vacated) TWA: 18000 mg/m³, STEL: 30000 ppm, STEL: 54000 mg/m³ |
N-Butane 106-97-8 | TWA: 1000 ppm, (vacated) TWA: 800 ppm, (vacated) TWA: 1900 mg/m³ | TWA: 800 ppm, TWA: 1900 mg/m³ | |
Pentane 109-66-0 | TWA: 600 ppm | TWA: 1000 ppm, TWA: 2950 mg/m³ (vacated) TWA: 600 ppm, TWA: 1800 mg/m³ (vacated) STEL: 750 ppm, STEL: 2250 mg/m³ | IDLH: 1500 ppm, Ceiling: 610 ppm 15 min, Ceiling: 1800 mg/m³ 15 min, TWA: 120 ppm, TWA: 350 mg/m³ |
Methane 74-82-8 | TWA: 1000 ppm | TWA: 1000 ppm, TWA: 1800 mg/m³, IDLH: 2100 ppm, TWA: 1000 ppm, TWA: 1800 mg/m³ | |
Ethane 74-84-0 | TWA: 1000 ppm | TWA: 1000 ppm, TWA: 1800 mg/m³ | |
Propane 74-98-6 | TWA: 1000 ppm, TWA: 1800 mg/m³ | TWA: 1000 ppm, TWA: 1800 mg/m³ | IDLH: 2100 ppm, TWA: 1000 ppm, TWA: 1800 mg/m³ |
Isobutane 75-28-5 | TWA: 1000 ppm, N/A | N/A, N/A | N/A |

**Immediately Dangerous to Life or Health.**

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).


**Ventilation** Use ventilation adequate to keep exposures below recommended exposure limits.

**Personal Protective Equipment**

**Eye/Face Protection** Wear protective eyewear (safety glasses).

**Skin and Body Protection** Work gloves and safety shoes are recommended when handling cylinders. Wear cold insulating gloves when handling liquid. Cotton or Nomex® clothing is recommended to prevent static build-up.

**Respiratory Protection**

**General Use** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Emergency Use** Use positive pressure airline respirator with escape cylinder or self contained breathing apparatus for oxygen-deficient atmospheres (<19.5%).

**Hygiene Measures** Wear suitable gloves and eye/face protection.
9. PHYSICAL AND CHEMICAL PROPERTIES

Product Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Molecular Weight</th>
<th>Evaporation Rate</th>
<th>Water Solubility</th>
<th>Vapor Pressure</th>
<th>Vapor Density (Air=1)</th>
<th>Gas Density Kg/m³ @ 20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopentane</td>
<td>28 °C</td>
<td>-160 °C</td>
<td>72.14</td>
<td>-</td>
<td>No information available</td>
<td>1100 hPa @ 38 °C</td>
<td>2.5</td>
<td>3.212 @ 15°</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>56 °C</td>
<td>-56 °C</td>
<td>44.00</td>
<td>-</td>
<td>0.145 g/ml @ 25°C</td>
<td>838 psig (5778 kPa) @ 21.1°C</td>
<td>1.522</td>
<td>1.839</td>
</tr>
<tr>
<td>Pentane</td>
<td>36 °C</td>
<td>&lt;-50 °C</td>
<td>72.14</td>
<td>No information available</td>
<td>2200 hPa @ 20 °C</td>
<td>1.21</td>
<td>2.52 @ 15°</td>
<td></td>
</tr>
<tr>
<td>N-Butane</td>
<td>-0.5 °C</td>
<td>-138.3 °C</td>
<td>58.12</td>
<td>-</td>
<td>No information available</td>
<td>46700 hPa @ -82.5 °C</td>
<td>0.56</td>
<td>0.668 @ 15°</td>
</tr>
<tr>
<td>Methane</td>
<td>-162 °C</td>
<td>-182.5 °C</td>
<td>16.04</td>
<td>-</td>
<td>No information available</td>
<td>600 - 39000 hPa @ 20 °C</td>
<td>1.05</td>
<td>1.282 @ 15°</td>
</tr>
<tr>
<td>Ethane</td>
<td>-88.7 °C</td>
<td>-183 - -20 °C</td>
<td>30.06</td>
<td>-</td>
<td>No information available</td>
<td>600 - 39000 hPa @ 20 °C</td>
<td>1.55</td>
<td>1.99 @ 15°</td>
</tr>
<tr>
<td>Propane</td>
<td>-42.1 °C</td>
<td>-183 - -20 °C</td>
<td>44.09</td>
<td>-</td>
<td>No information available</td>
<td>2100 hPa @ 20 °C</td>
<td>2.06</td>
<td>2.51 @ 15°</td>
</tr>
<tr>
<td>Isobutane</td>
<td>-11.7 °C</td>
<td>-255 °C</td>
<td>58.12</td>
<td>-</td>
<td>No information available</td>
<td>Above critical temperature</td>
<td>0.138</td>
<td>0.166</td>
</tr>
</tbody>
</table>

The following information is for the INERT components that may be part of this mixture:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Molecular Weight</th>
<th>Evaporation Rate</th>
<th>Water Solubility</th>
<th>Vapor Pressure</th>
<th>Vapor Density (Air=1)</th>
<th>Gas Density Kg/m³ @ 20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helium</td>
<td>-268.94 °C</td>
<td>-272.0 °C</td>
<td>4.00</td>
<td>-</td>
<td>0.0089 (vol/vol @ 20°C and 1 atm)</td>
<td>Above critical temperature</td>
<td>0.138</td>
<td>0.166</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>-196 °C</td>
<td>-210 °C</td>
<td>28.01</td>
<td>-</td>
<td>0.0123 (vol/vol @ 20°C and 1 atm)</td>
<td>Above critical temperature</td>
<td>0.97</td>
<td>1.165</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable.

Incompatible Products
Oxidizing agents.

Conditions to Avoid
Heat, flames and sparks.

Hazardous Decomposition Products
Carbon monoxide (CO). Carbon dioxide (CO₂).

Hazardous Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information
LD50 Oral: No information available.

LD50 Dermal: No information available.

LC50 Inhalation: No information available.

Repeated Dose Toxicity: No information available.

Component Information: No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Ethane</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>N-Butane</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Isobutane</td>
<td>-</td>
<td>-</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Isopentane</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>= 280000 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Pentane</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>= 364 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>-</td>
<td>-</td>
<td>470000 ppm (Rat)</td>
</tr>
</tbody>
</table>

Chronic Toxicity

Chronic Toxicity: None known.

Carcinogenicity: Contains no ingredient listed as a carcinogen.

Irritation: No information available.

Sensitization: No information available.

Reproductive Toxicity: No information available.

Developmental Toxicity: Oxygen deficiency during pregnancy has produced developmental abnormalities in humans and experimental animals.

Synergistic Materials: None known.

Target Organ Effects: None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Will not bioconcentrate.

Ozone depletion potential; ODP; (R-11 = 1): Does not contain ozone depleting chemical (40 CFR Part 82).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopentane</td>
<td></td>
<td></td>
<td></td>
<td>EC50 48 h: = 2.3 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Toxicity to Algae</td>
<td>Toxicity to Fish</td>
<td>Toxicity to Microorganisms</td>
<td>Daphnia Magna (Water Flea)</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------</td>
<td>------------------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Pentane</td>
<td></td>
<td></td>
<td></td>
<td>EC50 48 h: = 9.74 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h: = 11.59 mg/L (Pimephales promelas)</td>
<td>LC50 96 h: = 9.87 mg/L (Oncorhynchus mykiss)</td>
<td>LC50 96 h: = 9.99 mg/L (Leopomis macrochirus)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopentane</td>
<td>3.3</td>
</tr>
<tr>
<td>N-Butane</td>
<td>2.89</td>
</tr>
<tr>
<td>Pentane</td>
<td>3.39</td>
</tr>
<tr>
<td>Ethane</td>
<td>2.8</td>
</tr>
<tr>
<td>Propane</td>
<td>2.3</td>
</tr>
<tr>
<td>Isobutane</td>
<td>2.88</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Do not attempt to dispose of residual waste or unused quantities. Return in the shipping container PROPERLY LABELED WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE to Linde for proper disposal. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

14. TRANSPORT INFORMATION

**DOT**

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Methane, refrigerated liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>2.1</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>None</td>
</tr>
<tr>
<td>UN-Number</td>
<td>UN1972</td>
</tr>
<tr>
<td>Description</td>
<td>UN1972,Methane, refrigerated liquid,2.1</td>
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<tr>
<td>Emergency Response Guide Number</td>
<td>115</td>
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**TDG**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Methane, refrigerated liquid</th>
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<tbody>
<tr>
<td>Hazard Class</td>
<td>2.1</td>
</tr>
<tr>
<td>UN-Number</td>
<td>UN1972</td>
</tr>
<tr>
<td>Description</td>
<td>UN1972,METHANE, REFRIGERATED LIQUID,2.1</td>
</tr>
</tbody>
</table>

**MEX**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Methane, refrigerated liquid</th>
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</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>2.1</td>
</tr>
<tr>
<td>UN-Number</td>
<td>UN1972</td>
</tr>
<tr>
<td>Description</td>
<td>UN1972 Methane, refrigerated liquid,2.1</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>UN1972</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Natural gas, refrigerated liquid</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>2.1</td>
</tr>
<tr>
<td>ERG Code</td>
<td>10L</td>
</tr>
</tbody>
</table>
Description
Maximum Quantity for Passenger
Maximum Quantity for Cargo Only
Limited Quantity

IMDG/IMO
Proper Shipping Name
Hazard Class
UN-Number
EmS No.
Description

ADR
Proper Shipping Name
Hazard Class
UN-Number
Classification Code
Description

15. REGULATORY INFORMATION

International Inventories

TSCA
Complies
DSL
Complies
EINECS/ELINCS
Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
Reactive Hazard

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Risk and Process Safety Management Programs
This material, as supplied, contains one or more regulated substances with specified thresholds under 40 CFR Part 68 or regulated as a highly hazardous chemical pursuant to the 29 CFR Part 1910.110 with specified thresholds.
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA/SARA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
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<th>New Jersey</th>
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<tr>
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<tr>
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International Regulations

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<tr>
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<th>Carcinogen Status</th>
<th>Exposure Limits</th>
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<td>Carbon dioxide</td>
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<td>Mexico: TWA= 9000 mg/m³</td>
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<td>Mexico: STEL= 15000 ppm</td>
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<td>Mexico: STEL= 27000 mg/m³</td>
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<td>Mexico: TWA 800 ppm</td>
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<td>Mexico: TWA 1900 mg/m³</td>
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<td>Pentane</td>
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<td>Mexico: TWA 600 ppm</td>
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<td>Mexico: TWA 1800 mg/m³</td>
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<td>Mexico: STEL 760 ppm</td>
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<tr>
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<td>Mexico: STEL 2250 mg/m³</td>
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</table>

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
A Compressed gases  
B1 Flammable gas

16. OTHER INFORMATION

Prepared By: Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date: 22-Sep-2011

Revision Date

Revision Number: 0

Revision Note: Initial Release.

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<th>NFPA</th>
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<th>Stability</th>
<th>Physical and Chemical Hazards</th>
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Note: Ratings were assigned in accordance with Compressed Gas Association (CGA) guidelines as published in CGA Pamphlet P-19-2009, CGA Recommended Hazard Ratings for Compressed Gases, 3rd Edition.

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End of Safety Data Sheet