

Safety Data Sheet 2957

### Section 1: Product and Company Identification

Absolute Accuracy 4591 S Wayside Dr Houston, TX 77087 (832) 571-2387

Product Code: 2957 Part Number: 2957 Synonyms: Recommended Use: Usage Restrictions:

### **Section 2: Hazards Identification**



Hazard Classification: Flammable (Category 1) Gases Under Pressure Reproductive Toxicity (Category 1.A) Specific target organ toxicity (Repeated Exposure) (Category 1)

Hazard Statements: Causes damage to organs through prolonged or repeated exposure Contains gas under pressure; may explode if heated Extremely flammable gas May damage fertility or the unborn child

### **Precautionary Statements**

**Prevention:** 

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/ vapors/spray.. Wear protective gloves, protective clothing, eye protection and face protection. Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### **Response:**

Call a poison center or doctor if you feel unwell. Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. If exposed or concerned: Get medical advice/attention.

#### Storage:

Protect from sunlight. Store in well-ventilated place. Store locked up.

Disposal:

Dispose of contents and/or container in accordance with applicable regulations.

### Section 3: Composition/Information on Ingredients

		CAS #		Concentratio	on	
Nitrogen		7727-37-9		5%		
Methane		74-82-8		15%		
Carbon Mond	oxide	630-08-0		30%		
Carbon Dioxi	ide	124-38-9		20%		
Hydrogen		1333-74-0		Balance		
	Chemical Subst	ance	Chemical Family		Trade Names	
Nitrogen	NITROGEN, CON GAS	MPRESSED	Inorganic gases			OGEN; DINITROGEN; OGEN-14; NITROGEN GAS;
Methane	METHANE, COM GAS	IPRESSED	Hydrocarbons, Aliphatic	, Saturated		SH GAS; METHYL HYDRIDE; //ETHANE; UN 1971; R50; CH4
Carbon Monoxide	CARBON MONO	XIDE	Inorganic gases		CARBON OXIDE; 1016; CO	CARBON OXIDE (CO); UN
Carbon Dioxide	CARBON DIOXIE	DE, GAS	Inorganic gases			GAS; CARBONIC RBON DIOXIDE; CARBON CO2
Hydrogen	HYDROGEN		Inorganic gases		HYDROGEN GAS COMPRESSED; H DIHYDROGEN; U	YDROGEN (H2);

### **Section 4: First Aid Measures**

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Monoxid e	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Dioxide	If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.	Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Do not induce vomiting.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Hydroge n	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

# Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	<ul> <li>Respiratory protection may be needed for frequent or heavy exposure.</li> </ul>
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	<ul> <li>Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.</li> <li>Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.</li> </ul>

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Carbon Monoxid e	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	<ul> <li>Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.</li> <li>Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.</li> </ul>
Carbon Dioxide	Non-flammable	Non-flammable	<ul> <li>Any appropriate escape-type, self-contained breathing apparatus.</li> <li>Non-flammable</li> </ul>
Hydroge n	Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.	None known	<ul> <li>Any self-contained breathing apparatus with a full facepiece.</li> <li>Any self-contained breathing apparatus with a full facepiece.</li> </ul>

### Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Carbon Monoxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Carbon Dioxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch spilled material.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.	Stop leak if possible without personal risk.
Hydrogen	Keep unnecessary people away, isolate hazard area and deny entry. Do not touch spilled material. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Reduce vapors with water spray. Remove sources of ignition.

	Methods for Cleanup	Other Information
Nitrogen	N/A	N/A
Methane	Not available	Not available
Carbon Monoxide	Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Carbon Dioxide	Stop leak, evacuate, remove source of ignition.	None
Hydrogen	Stop leak if possible without personal risk.	None

# Section 7: Handling and Storage

	Handling	Storage
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

	Handling	Storage
Carbon Monoxide	Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.
Carbon Dioxide	Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards
Hydrogen	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

## Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Carbon Monoxide	CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling
Carbon Dioxide	CARBON DIOXIDE, GAS: CARBON DIOXIDE: 5000 ppm (9000 mg/m3) OSHA TWA 10000 ppm (18000 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 30000 ppm (54000 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 5000 ppm ACGIH TWA 30000 ppm ACGIH STEL 5000 ppm (9000 mg/m3) NIOSH recommended TWA 10 hour(s) 30000 ppm (54000 mg/m3) NIOSH recommended STEL
Hydrogen	HYDROGEN: ACGIH (simple asphyxiant)

Engineering Controls Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.
Methane	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure. Any self- contained breathing apparatus with a full facepiece.
Carbon Monoxide	Eye protection not required, but recommended.	Protective clothing is not required.	Any supplied-air respirator with full facepiece and operated in a pressure- demand or other positive-pressure mode in combination with a separate escape supply.
Carbon Dioxide	For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.	Any appropriate escape-type, self- contained breathing apparatus.

	Eye Protection	Skin Protection	Respiratory Protection
Hydrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Any self-contained breathing apparatus with a full facepiece.

**General Hygiene considerations** 

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

### **Section 9: Physical and Chemical Properties**

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Nitrog en	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless
Metha ne	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Carbo n Monox ide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Carbo n Dioxid e	Gas	Colorless	Colorless	N/A	Gas	Odorless	Acid taste
Hydro gen	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Nitrog en	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable
Metha ne	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%	5%
Carbo n Monox ide	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609-650 C)	0.74	12.0-12.5%
Carbo n Dioxid e	Not flammable	Not available	N/A	Nonflammable	Nonflammable	Nonflammable
Hydro gen	Flammable gas (burns at all ambient temperatures)	Not available	Not available	752 F (400 C)	0.75	0.04

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosit y
Nitr oge n	-321 F (- 196 C)	-346 F (- 210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applic able	Not available	Not applicable	0.01787 cP @ 27 C
Met han e	-260 F (- 162 C)	-297 F (- 183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable	3.5% @ 17 C	Not applic able	Not available	Not applicable	0.01118 cP @ 27 C
Car bon Mon oxid e	-312.7 F (- 191.5 C)	-326 F (- 199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable	2.3% @ 20 C	Not applic able	Not available	Not applicable	0.01657 cP @ 0 C

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosit y
Car bon Dio xide	Not available	-71 F (-57 C) @ 4000 mmHg	43700 mmHg @ 21 C	1.5 (Air=1)	1.522 @ 21 C	Soluble	3.7 (satur aqueo us solutio n) @ 101.3 kPa (carbo nic acid)	Not available	Not applicable	0.01657 cP @ 0 C
Hyd rog en	-423 F (- 253 C)	-434 F (- 259 C)	760 mmHg @ -253 C	0.07 (Air=1)	Not applicable	1.82% @ 20 C	Not applic able	Not available	Not applicable	0.008957 cP @ 26.8 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Nitrog en	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia
Metha ne	16.04	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble: Alcohol, ether, benzene, organic solvents
Carbo n Mono xide	28.01	C-0	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions
Carbo n Dioxi de	44.01	C-02	0.114	Not available	Not applicable	Not applicable	Soluble: Alcohol, acetone, hydrocarbons, organic solvents
Hydro gen	2	H2	0.08987 g/L @ 0 C	Not available	Not available	Not applicable	Soluble: Not available

# Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Nitrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials
Methane	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Halogens, oxidizing materials, combustible materials
Carbon Monoxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium
Carbon Dioxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases
Hydrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials, metal oxides, combustible materials, halogens, metal salts, halo carbons, nitrogen triflouride, oxygen diflouride, magnesium and calcium carbonate, sodium, potassium

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Nitrogen	Oxides of nitrogen	Will not polymerize.
Methane	Oxides of carbon	Will not polymerize.
Carbon Monoxide	Oxides of carbon	Will not polymerize.
Carbon Dioxide	Carbon monoxide	Will not polymerize.
Hydrogen	Miscellaneous decomposition products	Will not polymerize.

#### Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Carbon Monoxide	LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma
Carbon Dioxide	Not established	Not established	Ringing in the ears, nausea, irregular heartbeat, headache, drowsiness, dizziness, tingling sensation, visual disturbances, suffocation, convulsions, coma
Hydrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, convulsions, unconsciousness, coma

	Eye Irritation	Skin Irritation	Sensitization
Nitroge n	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing
Methan e	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Carbon Monoxi de	No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.
Carbon Dioxide	Irritation, frostbite, blurred vision	Liquid: blisters, frostbite	Difficulty breathing
Hydrog en	Not irritating	Not irritating	Difficulty breathing

#### **Chronic Effects**

	Carcinogenicity	Mutagenicity	Reproductive Effects	Develop mental Effects
Nitrogen	Not hazardous	Not available	Not available	No data
Methane	Not available	Not available	Not available	No data
Carbon Monoxid e	Not available	Available.	Available.	No data
Carbon Dioxide	Not available	Not established	Available.	No data
Hydroge n	Not available	Not available	Not available	No data

## Section 12: Ecological Information

#### **Fate and Transport**

	Eco toxicit	у	Persistence / Degradability	<b>Bioaccumulation / Accumulation</b>	Mobility in Environment
Nitrog	Fish toxicity	: Not	Not available	Not available	Not available

en	available			
	Invertibrate toxicity: Not available			
	Algal toxicity: Not			
	available			
	Phyto toxicity: Not			
	available			
	Other toxicity: Not available			
Metha	Fish toxicity: Not	Relatively non-persistent in the	Accumulates very little in the bodies	Not expected to leach through
ne	available	environment. Moderately volatile	of living organisms.	the soil or the sediment.
	Invertibrate toxicity:	from water.		
	Not available			
	Algal toxicity: Not			
	available			
	Phyto toxicity: Not available			
	Other toxicity: Not			
	available			
Carbo	Fish toxicity: 75000	Relatively non-persistent in the	Not available	Not expected to leach through
n	ug/L 1 day(s) LC100	environment. Highly volatile from		the soil or the sediment.
Monox	(Mortality)	water.		
ide	Orangespotted sunfish (Lepomis			
	humilis)			
	Invertibrate toxicity:			
	Not available			
	Algal toxicity: Not			
	available			
	Phyto toxicity: Not available			
	Other toxicity: Not			
	available			
Carbo	Fish toxicity: 150000	Relatively non-persistent in the	Accumulates very little in the bodies	Leaches through the soil
n Divid	ug/L 48 day(s)	environment. Moderately volatile	of living organisms.	
Dioxid e	(Mortality) Brown trout (Salmo trutta)	from water.		
e	Invertibrate toxicity:			
	Not available			
	Algal toxicity: Not			
	available			
	Phyto toxicity: Not			
	available Other toxicity: Not			
	available			
Hydro	Fish toxicity: Not	Not available	Not available	Not available
gen	available			
	Invertibrate toxicity:			
	Not available			
	Algal toxicity: Not available			
	Phyto toxicity: Not			
	available			
	Other toxicity: Not			
	available			

# Section 13: Disposal Considerations

Nitrogen	Dispose in accordance with all applicable regulations.
Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Carbon Monoxide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Carbon Dioxide	Dispose in accordance with all applicable regulations.
Hydrogen	Dispose in accordance with all applicable regulations.

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
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### Section 14: Transportation Information

### U.S. DOT 49 CFR 172.101

### **DOT Information For This Mixture**

Shipping Name	Compressed gas, flammable, n.o.s. (Carbon Monoxide, Hydrogen)
UN Number	UN1954
Hazard Class	2.1
Hazard Information	FLAMMABLE GAS

#### **Individual Component Information**

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Ni tr o g en	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A
M et h a ne	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
C ar b o n M o r o xi de	Carbon monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic- Inhalation Hazard Zone D
C ar b n Di v xi de	Carbon dioxide	UN1013	2.2	Not applicable	2.2	75 kg or L	150kg	None
H y dr g en	Hydrogen, compressed	UN1049	2.1	Not applicable	2.1	Forbidden	150 kg	None

### **Canadian Transportation of Dangerous Goods**

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Nitr	Nitrogen, compressed	UN1066	2.2	Not applicable
oge				
n				
Met	Methane, compressed	UN1971	2.1	Not applicable

han e				
Car bon Mon oxid e	Carbon monoxide, compressed	UN1016	2.3; 2.1	Not applicable
Car bon Dio xide	Carbon dioxide	UN1013	2.2	Not applicable
Hyd rog en	Hydrogen, compressed	UN1049	2.1	Not applicable

# Section 15: Regulatory Information

#### **U.S. Regulations**

	CERCLA Sections	SARA 355.30	SARA 355.40	
Nitroge n	Not regulated.	Not regulated.	Not regulated.	
Methan e	Not regulated.	Not regulated.	Not regulated.	
Carbon Monoxi de	Not regulated.	Not regulated.	Not regulated.	
Carbon Dioxide	Not regulated.	Not regulated.	Not regulated.	
Hydrog en	Not regulated.	Not regulated.	Not regulated.	

### SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Nitro gen	Yes	No	No	No	Yes
Meth ane	Yes	No	Yes	No	Yes
Carb on Mono xide	Yes	No	Yes	No	Yes
Carb on Dioxi de	Yes	No	No	No	Yes
Hydr ogen	Yes	No	Yes	No	Yes

### SARA 372.65

Nitrogen	Not regulated.
Methane	Not regulated.
Carbon Monoxide	Not regulated.
Carbon Dioxide	Not regulated.
Hydrogen	Not regulated.

### **OSHA Process Safety**

Nitrogen	Not regulated.
Methane	Not regulated.
Carbon Monoxide	Not regulated.
Carbon Dioxide	Not regulated.
Hydrogen	Not regulated.

#### **State Regulations**

	CA Proposition 65
Nitrogen	Not regulated.
Methane	Not regulated.
Carbon Monoxide	WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Carbon Dioxide	Not regulated.
Hydrogen	Not regulated.

### Canadian Regulations

	WHMIS Classification
Nitrogen	A
Methane	A, B1
Carbon Monoxide	A, B1, D1A, D2A.
Carbon Dioxide	Α
Hydrogen	A, B1.

#### **National Inventory Status**

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Nitrog	Listed on inventory.	Not listed.	Listed on inventory.
en			
Metha	Listed on inventory.	Not listed.	Listed on inventory.
ne			
Carbo	Listed on inventory.	Not listed.	Listed on inventory.
n			
Mono			
xide			
Carbo	Listed on inventory.	Not listed.	Listed on inventory.
n			
Dioxid			
е			
Hydro	Listed on inventory.	Not listed.	Listed on inventory.
gen			

### Section 16: Other Information

	NFPA Rating	
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA	
Methane	HEALTH=0 FIRE=4 REACTIVITY=0	
Carbon Monoxide	HEALTH=2 FIRE=4 REACTIVITY=0	
Carbon Dioxide	HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA	
Hydrogen	HEALTH=0 FIRE=4 REACTIVITY=0	

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard