

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 01/27/2023

Version: 1.0

### **SECTION 1: IDENTIFICATION**

### 1.1. Product Identifier

Product Form: Mixture
Product Name: Ethane/Propane Mix

Synonyms: Commercial Propane, LP-Gas, Liquefied Petroleum Gas, Dimethylmethane

#### **1.2.** Intended Use of the Product

Fuel

#### 1.3. Name, Address, and Telephone of the Responsible Party

Company

Williams Inc. One Williams Center Tulsa, OK 74172 855-945-5762 www.williams.com

ehs@williams.com

#### **1.4.** Emergency Telephone Number

Emergency Number : VelocityEHS

(800)255-3924 (North America)

Security.OperationsCenter@williams.com

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1. Classification of the Substance GHS-US/CA Classification	or Mixture
Flammable gases Category 1	H220
Gases under pressure Liquefied gas Simple Asphyxiant	H280
2.2. Label Elements	
GHS-US/CA Labeling	
Hazard Pictograms (GHS-US/CA)	
Signal Word (GHS-US/CA)	: Danger
Hazard Statements (GHS-US/CA)	: H220 - Extremely flammable gas.
	H280 - Contains gas under pressure; may explode if heated.
	May displace oxygen and cause rapid suffocation.
Precautionary Statements (GHS-US/CA)	sources. No smoking.
	P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
	P381 - In case of leakage, eliminate all ignition sources.
	P403 - Store in a well-ventilated place.
	P410+P403 - Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Contact with gas escaping the container can cause frostbite.

#### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

#### Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	<b>GHS Ingredient Classification</b>
Ethane	Ethyl hydride / ETHANE	(CAS-No.) 74-84-0	< 82	Flam. Gas 1, H220
				Press. Gas (Liq.), H280
				Simple Asphyxiant
Propane	Normal propane / PROPANE /	(CAS-No.) 74-98-6	< 25	Flam. Gas 1, H220
	n-Propane / R290			Press. Gas (Liq.), H280
				Simple Asphyxiant
Methane	Marsh gas / Methyl hydride /	(CAS-No.) 74-82-8	< 5	Flam. Gas 1, H220
	Methane, compressed / Monomethylamine			Press. Gas (Liq.), H280
	Monomethylamine			Simple Asphyxiant
Propene	Propylene / 1-Propene / n-	(CAS-No.) 115-07-1	< 2	Simple Asphyxiant
	Propene / 1-Propylene / Prop 1-ene			Flam. Gas 1, H220
	1-6116			Press. Gas (Liq.), H280
				STOT SE 3, H336
				Aquatic Acute 3, H402
				Aquatic Chronic 3, H412
n-Butane	Butane / BUTANE	(CAS-No.) 106-97-8	< 2	Flam. Gas 1, H220
				Press. Gas (Liq.), H280
				Simple Asphyxiant
Isobutane	2-Methylpropane / Propane,	(CAS-No.) 75-28-5	< 2	Flam. Gas 1, H220
	2-methyl- / ISOBUTANE / R600a / isobutane			Press. Gas (Liq.), H280
	Rouda / Isobularie			Simple Asphyxiant

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Composition is variable.

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First aid personnel should wear appropriate protective equipment during any rescue.

**Inhalation:** First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. If frostbite or freezing from exposure to gas/liquid escaping the container occurs: For brief contact with a small amount: Rewarm with body heat. Get immediate medical advice/attention. For extensive contact or a large amount: Immediately call a poison center/doctor and follow their advice. Specific treatment is urgent, incorrect first-aid practices will aggravate the injury. Protect affected area with a loose cover until proper medical treatment is received.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention. **Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Asphyxia by lack of oxygen: risk of death. May cause frostbite on contact with the liquid.

**Inhalation:** In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death.

Skin Contact: Contact with gas/liquid escaping the container can cause frostbite and freeze burns.

**Eye Contact:** Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage. **Ingestion:** Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite.

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Chronic Symptoms: None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

#### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Do not extinguish burning gas if flow cannot be shut off immediately. Extinguish secondary FIRES with appropriate materials.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Extremely flammable gas. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture. Container may explode in heat of fire. Vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks) and form explosive mixtures with air.

**Reactivity:** May react violently with halogens.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Fight fire remotely due to the risk of explosion. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Remove containers from fire area if this can be done without risk. Use water spray or fog for cooling exposed containers. If possible, avoid spraying cold areas of equipment to avoid rapid freezing of water, which can result in heavy icing and possible blockage of pressure release valves. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank due to fire. After the fire has been extinguished, explosive, toxic atmospheres may linger. Before entering such an area, especially confined areas, check the atmosphere with an appropriate monitoring device.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products**: Carbon oxides (CO, CO<sub>2</sub>).

**Other Information:** Use water spray to disperse vapors.

#### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Eliminate every possible source of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe gas/vapors. Ensure adequate ventilation: gas will displace oxygen and cause rapid suffocation in confined areas.

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Non-emergency personnel should evacuate the area of the spill and only enter after emergency personnel have declared the area safe to enter.

#### 6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedures:** First, eliminate ignition sources, evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Stop leak, if possible without risk.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Stop the source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Absorb liquid components with non-combustible liquid-binding material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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#### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Asphyxiating gas at high concentrations. Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Do not breathe gas/vapors. Avoid prolonged contact with eyes, skin and clothing. Keep away from heat, sparks, and flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Close valve after each use and when empty. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. **Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep in fireproof place. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Halogens.

#### 7.3. Specific End Use(s)

Fuel

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Ethane (74-84-0)		
USA ACGIH	ACGIH chemical category	Simple Asphyxiant See Appendix F: Minimal Oxygen
		Content
Alberta	OEL TWA [ppm]	1000 ppm
Nunavut	OEL STEL [ppm]	1250 ppm
Nunavut	OEL TWA [ppm]	1000 ppm
Northwest Territories	OEL STEL [ppm]	1250 ppm
Northwest Territories	OEL TWA [ppm]	1000 ppm
Saskatchewan	OEL STEL [ppm]	1250 ppm
Saskatchewan	OEL TWA [ppm]	1000 ppm
Propane (74-98-6)		
USA ACGIH	ACGIH chemical category	Simple Asphyxiant See Appendix F: Minimal Oxygen
		Content
USA OSHA	OSHA PEL (TWA) [1]	1800 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	1000 ppm
USA NIOSH	NIOSH REL (TWA)	1800 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	1000 ppm
USA IDLH	IDLH [ppm]	2100 ppm (10% LEL)
Alberta	OEL TWA [ppm]	1000 ppm
Nunavut	OEL STEL [ppm]	1250 ppm
Nunavut	OEL TWA [ppm]	1000 ppm
Northwest Territories	OEL STEL [ppm]	1250 ppm
Northwest Territories	OEL TWA [ppm]	1000 ppm
Québec	VEMP (OEL TWA)	1800 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	1000 ppm
Saskatchewan	OEL STEL [ppm]	1250 ppm
Saskatchewan	OEL TWA [ppm]	1000 ppm
Methane (74-82-8)		

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	ACGIH chemical category	Simple Asphyxiant See Appendix F: Minimal Oxygen
USA ACUIT	Content	
Nunavut	OEL STEL [ppm]	1250 ppm
Nunavut	OEL TWA [ppm]	1000 ppm
Northwest Territories	OEL STEL [ppm]	1250 ppm
Northwest Territories	OEL TWA [ppm]	1000 ppm
Saskatchewan	OEL STEL [ppm]	1250 ppm
Saskatchewan	OEL TWA [ppm]	1000 ppm
Propene (115-07-1)		1000 ppm
USA ACGIH	ACGIH OEL TWA [ppm]	500 ppm
USA ACGIH	ACGIH Chemical category	Not Classifiable as a Human Carcinogen
Alberta	OEL TWA	860 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	500 ppm
British Columbia	OEL TWA [ppm]	500 ppm
Manitoba	OEL TWA [ppm]	500 ppm
Newfoundland & Labrador	OEL TWA [ppm]	500 ppm
Nova Scotia	OEL TWA [ppm]	500 ppm
Ontario	OEL TWA [ppm]	500 ppm
Prince Edward Island	OEL TWA [ppm]	500 ppm
Québec	VEMP (OEL TWA) [ppm]	500 ppm
n-Butane (106-97-8)		
USA ACGIH	ACGIH OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
USA NIOSH	NIOSH REL (TWA)	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	800 ppm
USA IDLH	IDLH [ppm]	1600 ppm (>10% LEL)
Alberta	OEL TWA [ppm]	1000 ppm
British Columbia	OEL STEL [ppm]	1000 ppm (Butane, all isomers)
Manitoba	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
New Brunswick	OEL TWA	1900 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	800 ppm
Newfoundland & Labrador	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
Nova Scotia	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
Nunavut	OEL STEL [ppm]	1250 ppm (Butane, all isomers)
Nunavut	OEL TWA [ppm]	1000 ppm (Butane, all isomers)
Northwest Territories	OEL STEL [ppm]	1250 ppm (Butane, all isomers)
Northwest Territories	OEL TWA [ppm]	1000 ppm (Butane, all isomers)
Ontario	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, all isomers)
Prince Edward Island	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
Québec	VEMP (OEL TWA)	1900 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	800 ppm
Saskatchewan	OEL STEL [ppm]	1250 ppm (Butane, all isomers)
Saskatchewan	OEL TWA [ppm]	1000 ppm (Butane, all isomers)
Yukon	OEL STEL	1600 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	750 ppm
Yukon	OEL TWA	1400 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	600 ppm
Isobutane (75-28-5)		
	ACGIH OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
USA NIOSH	NIOSH REL (TWA)	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	800 ppm
British Columbia	OEL STEL [ppm]	1000 ppm (Butane, all isomers)
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Manitoba	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)	
Newfoundland & Labrador	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)	
Nova Scotia	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)	
Nunavut	OEL STEL [ppm]	1250 ppm (Butane, all isomers)	
Nunavut	OEL TWA [ppm]	1000 ppm (Butane, all isomers)	
Northwest Territories	OEL STEL [ppm]	1250 ppm (Butane, all isomers)	
Northwest Territories	OEL TWA [ppm]	1000 ppm (Butane, all isomers)	
Ontario	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, all isomers)	
Prince Edward Island	OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)	
Saskatchewan	OEL STEL [ppm]	1250 ppm (Butane, all isomers)	
Saskatchewan	OEL TWA [ppm]	1000 ppm (Butane, all isomers)	

#### 8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases or vapors may be released. Oxygen detectors should be used when asphixiating gases may be released. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure all national/local regulations are observed. Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles. Faceshield as determined by task.

Skin and Body Protection: Wear suitable protective clothing.

**Respiratory Protection:** An NIOSH-approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

**Thermal Hazard Protection:** Wear thermally resistant protective clothing. If material is cold, wear thermally resistant protective gloves.

Other Information: When using, do not eat, drink or smoke.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

	•
Physical State	: Gas
Appearance	: Colorless
Odor	: Odorless
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: -89 °C (-128.2 °F)
Flash Point	: -135 °C (-211 °F)
Auto-ignition Temperature	: > 426.7 °C (800.06 °F)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Extremely Flammable Gas
Lower Flammable Limit	: 2.1 %
Upper Flammable Limit	: 13 %
Vapor Pressure	: 229000 mm Hg (4428 psi)
Relative Vapor Density at 20°C	: No data available
Relative Density	: 0.45 (Water = 1)
Specific Gravity	: No data available
Solubility	: Water: Not miscible or difficult to mix
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Ethane/Propane Mix	
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Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available
Explosive Properties	: Contains gas under pressure; may explode if heated
SECTION 10: STABILITY AND REACTIVITY	
10.1. Reactivity:	
May react violently with halogens.	
10.2. Chemical Stability:	
Contains gas under pressure; may explode if heat	ted.
10.3. Possibility of Hazardous Reactions:	
Hazardous polymerization will not occur.	
10.4. Conditions to Avoid:	
Direct sunlight, extremely high or low temperatu	res, open flames, sources of ignition and incompatible materials.
10.5. Incompatible Materials:	
Strong acids, strong bases, strong oxidizers. Halo	gens.
10.6. Hazardous Decomposition Products:	-
Thermal decomposition may produce: Carbon ox	ides (CO, $CO_2$ ).
SECTION 11: TOXICOLOGICAL INFORMAT	
11.1. Information on Toxicological Effect	
Acute Toxicity (Oral): Not classified	
Acute Toxicity (Dermal): Not classified	
Acute Toxicity (Inhalation): Not classified	
LD50 and LC50 Data:	
No additional information available	
Skin Corrosion/Irritation: Not classified	
Eye Damage/Irritation: Not classified	
Respiratory or Skin Sensitization: Not classified	
Germ Cell Mutagenicity: Not classified	
Carcinogenicity: Not classified	
Specific Target Organ Toxicity (Repeated Exposu	ire): Not classified
Reproductive Toxicity: Not classified	
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard: Not classified	
Symptoms/Injuries After Inhalation: In elevated	concentrations may cause asphyxiation, central nervous system effects, and
increased breathing rate. Symptoms of asphyxiat	ion include headache, dizziness, rapid breathing, increased pulse, mood changes,
tremors, cyanosis, muscular weakness, narcosis,	numbness of the extremities, unconsciousness and death.
	with gas/liquid escaping the container can cause frostbite and freeze burns.
	/ith gas/liquid escaping the container can cause frostbite, freeze burns, and
permanent eye damage.	
	red a potential route of exposure, but contact with gas/liquid escaping the container
can cause freeze burns and frostbite.	
Chronic Symptoms: None expected under norma	al conditions of use.
11.2. Information on Toxicological Effect	s - Ingredient(s)

#### Information on Toxicological Effects - Ingredient(s) 11.2.

LD50 and LC50 Data:	
Ethane (74-84-0)	

ıre time: 15 min)
re time: 15 min)
re time: 15 min)
e time: 2 h)
e

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n-Butane (106-97-8)		
LC50 Inhalation Rat		30957 mg/m <sup>3</sup> (Exposure time: 4 h)
LC50 Inhalation Rat		276798.8 ppm
Propene (115-07-1)		
IARC Group		3
SECTION 12: ECOLOGICAL INFORM	ATION	
12.1. Toxicity		
<b>Ecology - General:</b> Not classified.		
Propene (115-07-1)		
ErC50 algae	33.39 mg/l	
12.2. Persistence and Degradabilit	y	
Ethane/Propane Mix		
Persistence and Degradability	Not established.	
12.3. Bioaccumulative Potential		
Ethane/Propane Mix		
Bioaccumulative Potential	Not established.	
Ethane (74-84-0)		
Partition coefficient n-octanol/water	1.09 – 2.8 at 20 °C (	at pH 7)
(Log Pow)		
Propane (74-98-6)		
Partition coefficient n-octanol/water	1.09 at 20 °C (at pH	7)
(Log Pow)		
Methane (74-82-8)	4.00	
Partition coefficient n-octanol/water	1.09	
(Log Pow) Propene (115-07-1)		
Partition coefficient n-octanol/water	1.77 at 20 °C (at pH	7)
(Log Pow)	1.77 dt 20 'C (dt pi	,,
n-Butane (106-97-8)	1	
Partition coefficient n-octanol/water	2.31 at 20 °C (at pH	7)
(Log Pow)		·
Isobutane (75-28-5)		
BCF Fish 1	1.57 – 1.97	
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 at 20 °C (	at pH 7)
12.4. Mobility in Soil		

No additional information available

12.5.

## **Other Adverse Effects**

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable. Empty gas cylinders should be returned to the vendor for recycling or refilling. Do not puncture or incinerate container.

Ecology - Waste Materials: Avoid release to the environment.

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#### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

and can vary based on a numb	er of variables that may of may not hav	le been known at the tim
14.1. In Accordance wit	n DOT	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	
Identification Number	: UN1075	
Label Codes	: 2.1	2
ERG Number	: 115	•
14.2. In Accordance wit	h IMDG	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	
Identification Number	: UN1075	
Label Codes	: 2.1	2
EmS-No. (Fire)	: F-D	
EmS-No. (Spillage)	: S-U	
14.3. In Accordance wit	h IATA	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	
Identification Number	: UN1075	
Label Codes	: 2.1	2
ERG Code (IATA)	: 10L	•
14.4. In Accordance wit	h TDG	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	
Identification Number	: UN1075	
Label Codes	: 2.1	2
<b>SECTION 15: REGULATOR</b>	(INFORMATION	
15.1. US Federal Regula	tions	
Ethane/Propane Mix		
SARA Section 311/312 Hazar	d Classes Phy	vsical hazard - Flammable
	Phy	vsical hazard - Gas under

Physical hazard - Flammable (gases, aerosols, liquids, or solids) Physical hazard - Gas under pressure Health hazard - Simple Asphyxiant

#### Ethane (74-84-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### Propane (74-98-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### Methane (74-82-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### Propene (115-07-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting

#### n-Butane (106-97-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### Isobutane (75-28-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### 15.2. US State Regulations

Ethane (74-84-0)

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
Propane (74-98-6)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
Methane (74-82-8)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
Propene (115-07-1)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
n-Butane (106-97-8)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
Isobutane (75-28-5)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List
U.S Massachusetts - Right To Know List
15.2 Canadian Degulations

#### 15.3. Canadian Regulations

Ethane (74-84-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Methane (74-82-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Propene (115-07-1) Listed on the Canadian DSL (Domestic Substances List)

n-Butane (106-97-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Isobutane (75-28-5)

Listed on the Canadian DSL (Domestic Substances List)

#### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

- Date of Preparation : 01/27/2023 or Latest Revision
- Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

**GHS Full Text Phrases:** 

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H336	May cause drowsiness or dizziness
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)