

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).

SDS No. 15053 Revision Date: 10/31/2018

Date of Issue: 10/16/2007

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture Product Name: Sales Gas Synonyms: Propane / Propylene (P/P)

1.2. Intended Use of the Product

Light gases from distilled and catalytically-cracked petroleum oil consisting of hydrogen and hydrocarbons having carbon numbers in the range of C_1 through C_4 , predominantly methane and ethane (> 80%).

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

Customer

Hess Tower 1501 McKinney Houston, TX 77010 T:(713) 496-4000

When calling the main operator ask for the EHS Safety Department. All Hess SDSs are also available via the <u>Hess.com</u> website.

1.4. Emergency Telephone Number

Emergency Number : (800) 424-9300 CHEMTREC (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture GHS-US/CA Classification

Simple Asphy	
Flam. Gas 1	H220
Press. Gas (Liq.)	H280
Acute Tox. 4	H332
(Inhalation:gas)	
Muta. 1A	H340
Carc. 1B	H350
Repr. 1A	H360
STOT RE 2	H373

Full text of hazard classes and H-statements : see Section 16.

2.2. Label Elements

GHS-US/CA Labeling Hazard Pictograms (GHS-US/CA)

Signal Word (GHS-US/CA) Hazard Statements (GHS-US/CA)

- : Danger
- : H220 Extremely flammable gas.
 - H280 Contains gas under pressure; may explode if heated.
 - H332 Harmful if inhaled.
 - H340 May cause genetic defects.
 - H350 May cause cancer.
 - H360 May damage fertility or the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - May displace oxygen and cause rapid suffocation.

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Precautionary Statements (GHS-US/CA) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 - Do not breathe gas.

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

P280 - Wear protective gloves, protective clothing, and eye protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

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.

P405 - Store locked up.

P410+P403 - Protect from sunlight. Store in a well-ventilated place.

P501 - Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

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 data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product Identifier	% *	GHS Ingredient Classification
Fuel gases, crude oil distillates	(CAS-No.) 68476-29-9	100	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
			Acute Tox. 4 (Inhalation:gas), H332
			Muta. 1A, H340
			Carc. 1B, H350
			Repr. 1A, H360
			STOT RE 2, H373

Contains:			
Name	Product Identifier	% *	GHS Ingredient Classification
Methane	(CAS-No.) 74-82-8	< 40	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
Ethane	(CAS-No.) 74-84-0	< 20	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
Ethylene	(CAS-No.) 74-85-1	< 20	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Comp.), H280
			STOT SE 3, H336
			Aquatic Acute 3, H402
Hydrogen	(CAS-No.) 1333-74-0	< 15	Flam. Gas 1, H220
			Press. Gas (Comp.), H280
Propene	(CAS-No.) 115-07-1	1 - 4	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
			Aquatic Acute 3, H402

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		Aquatic Chronic 3, H412

Full text of H-phrases: 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%).

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). 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.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Obtain medical attention if breathing difficulty persists. 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.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause frostbite on contact with the liquid. Harmful if inhaled. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure. Asphyxia by lack of oxygen: risk of death.

Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. 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.

This product is a simple asphyxiant. In high concentrations it will displace oxygen from the breathing atmosphere, particularly in confined spaces. Signs of asphyxiation will be noticed when oxygen is reduced to below 16%, and may occur in several stages. Symptoms may include rapid breathing and pulse rate, headache, dizziness, visual disturbances, mental confusion, incoordination, mood changes, muscular weakness, tremors, cyanosis, narcosis and numbness of the extremities. Unconsciousness leading to central nervous system injury and possibly death will occur when the atmospheric oxygen concentration is reduced to about ≤8%.

WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, 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.

Chronic Symptoms: May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

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.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Extremely flammable gas.

Explosion Hazard: May form flammable/explosive vapor-air mixture. Container may explode in heat of fire.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

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

Firefighting Instructions: Gas fires should not be extinguished unless flow of gas can be immediately stopped. Shut off gas source and allow gas to burn out. If spill or leak has not ignited, determine if water spray may assist in dispersing gas or vapor to protect personnel attempting to stop leak.

Use water to cool equipment, surfaces and containers exposed to fire and excessive heat. For large fire the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure.

Isolate area, particularly around ends of storage vessels. Let vessel, tank car or container burn unless leak can be stopped. Withdraw immediately in the event of a rising sound from a venting safety device. Large fires typically require specially trained personnel and equipment to isolate and extinguish fire.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH – approved pressure demand self-contained breathing apparatus with full face piece and full protective clothing. **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products**: Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen. Hydrogen sulfide and other sulfur-containing gases can evolve from this product at elevated temperatures. **Other Information**: Use water spray to disperse vapors.

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. **6.1.1.** For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: 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. Evacuate unnecessary personnel, isolate, and ventilate area. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

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

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. 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.

6.4. Reference to Other Sections

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

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

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Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not breathe gas. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Avoid contact with skin, eyes and clothing.

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. **Storage Conditions:** Store only in approved containers. Bond and ground containers. Keep away from flame, sparks, excessive temperatures and open flame. Keep container closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld, or expose such containers to sources of ignition.

Store in a well-ventilated area and in accordance with NFPA 58 "Liquefied Petroleum Gas Code".

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

7.3. Specific End Use(s)

Light gases from distilled and catalytically-cracked petroleum oil consisting of hydrogen and hydrocarbons having carbon numbers in the range of C_1 through C_4 , predominantly methane and ethane (> 80%).

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)					
Alberta	OEL TWA (ppm)	1000 ppm			
British Columbia	OEL TWA (ppm)	1000 ppm			
Ethylene (74-85-1)					
USA ACGIH	ACGIH TWA (ppm)	200 ppm			
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen			
Alberta	OEL TWA (mg/m³)	229 mg/m ³			
Alberta	OEL TWA (ppm)	200 ppm			
British Columbia	OEL TWA (ppm)	200 ppm			
Ontario	OEL TWA (ppm)	200 ppm			
Hydrogen (1333-74-0)					
USA ACGIH	ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen			
		Content			
Methane (74-82-8)					
British Columbia	OEL TWA (ppm)	1000 ppm			
Propene (115-07-1)					
USA ACGIH	ACGIH TWA (ppm)	500 ppm			
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen			
Alberta	OEL TWA (mg/m³)	860 mg/m ³			
Alberta	OEL TWA (ppm)	500 ppm			
British Columbia	OEL TWA (ppm)	500 ppm			
Ontario	OEL TWA (ppm)	500 ppm			

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. 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. Gas detectors should be used when toxic gases may be released. Oxygen detectors should be used when asphyxiating gases may be released.

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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. If material is cold, wear thermally resistant protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH/MSHA approved positive-pressure, supplied air respirator with escape bottle or self-contained breathing apparatus (SCBA) for gas concentrations above occupational exposure limits, for potential for uncontrolled release, if exposure levels are not known, or in an oxygen-deficient atmosphere.

CAUTION: Flammability limits (i.e., explosion hazard) should be considered when assessing the need to expose personnel to concentrations requiring respiratory protection.

Refer to OSHA 29 CFR 1910.134, ANSI Z88.2, NIOSH Respiratory Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Thermal Hazard Protection: Wear thermally resistant protective clothing.

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

5.1. Information on Busic r hysical and chem	ncu	i i i oper des
Physical State	:	Gas
Appearance	:	Colorless Gas
Odor	:	Sulfur-Like or "Natural Gas-Like" Odor
Odor Threshold	:	Not available
рН	:	Not available
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	-127.5 °F (-88.61 °C)
Flash Point	:	-211 °F (-135 °C)
Auto-ignition Temperature	:	882 °F (472.22 °C)
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Extremely flammable gas
Lower Flammable Limit	:	3 %
Upper Flammable Limit	:	12.4 %
Vapor Pressure	:	544 psig @ 70 °F (21 °C)
Relative Vapor Density at 20°C	:	1.04 @ 32 °F (0 °C)
Relative Density	:	Not available
Specific Gravity	:	Not available
Solubility	:	Slight
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available
Explosive Properties	:	Contains gas under pressure; may explode if heated
ΣΕΛΤΙΩΝΙ 10: ΣΤΑΒΙΙ ΙΤΥ ΑΝΙΩ ΡΕΛΛΤΙ//ΙΤΥ		

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Contains gas under pressure; may explode if heated.

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

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10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

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

10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Inhalation:gas: Harmful if inhaled.

LD50 and LC50 Data:

Sales Gas

ATE US/CA (gas)

4,500.00 ppmV/4h

Skin Corrosion/Irritation: Not classified

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: May cause genetic defects.

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure. **Reproductive Toxicity:** May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. 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. This product is a simple asphyxiation will be noticed when oxygen is reduced to below 16%, and may occur in several stages. Symptoms may include rapid breathing and pulse rate, headache, dizziness, visual disturbances, mental confusion, incoordination, mood changes, muscular weakness, tremors, cyanosis, narcosis and numbness of the extremities. Unconsciousness leading to central nervous system injury and possibly death will occur when the atmospheric oxygen concentration is reduced to about ≤8%.

WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Symptoms/Injuries After Skin Contact: Contact with gas/liquid escaping the container can cause frostbite and freeze burns. Symptoms/Injuries After Eye Contact: Contact with gas/liquid escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Injuries After Ingestion: Not considered a potential route of exposure, but contact with gas/liquid escaping the container can cause freeze burns and frostbite.

Chronic Symptoms: May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Fuel gases, crude oil distillates (68476-29-9)		
ATE US/CA (gas)	4,500.00 ppmV/4h	
Ethane (74-84-0)		
LC50 Inhalation Rat	658 mg/l/4h	
Hydrogen (1333-74-0)		
LC50 Inhalation Rat	> 15000 ppm/1h	
Propene (115-07-1)		
LC50 Inhalation Rat	> 65000 ppm/4h	

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Ethylene (74-85-1)	
IARC Group	3
Propene (115-07-1)	
IARC Group	3
SECTION 12: ECOLOGICAL INFORM	ATION
12.1. Toxicity	
Ecology - General: Not classified.	
Ethylene (74-85-1)	
ErC50 (algae)	72 mg/l
NOEC Chronic Fish	13 mg/l
Propene (115-07-1)	
ErC50 (algae)	33.39 mg/l
12.2. Persistence and Degradabilit	у
Sales Gas	
Persistence and Degradability	Not established.
12.3. Bioaccumulative Potential	
Sales Gas	
Bioaccumulative Potential	Not established.
Fuel gases, crude oil distillates (68476-2	9-9)
Log Pow	<= 2.8
Ethane (74-84-0)	
Log Pow	<= 2.8
Ethylene (74-85-1)	
BCF Fish 1	4 - 4.6
Log Pow	0.053
Hydrogen (1333-74-0)	
BCF Fish 1	(no bioaccumulation expected)
Propene (115-07-1)	
Log Pow	<= 2.8
12.4 Mahility in Sail	

12.4. Mobility in Soil

Not 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 waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions. 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.

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.

14.1. In Accordance with DOT

Proper Shipping Name Hazard Class Identification Number	: PETROLEUM GASES, LIQUEFIED : 2.1 : UN1075 : 2.1	<u>*</u>
Label Codes	: 2.1	2

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ERG Number	: 115	
14.2. In Accordance with	IMDG	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	R.
Identification Number	: UN1075	
Label Codes	: 2.1	2
EmS-No. (Fire)	: F-D	
EmS-No. (Spillage)	: S-U	
14.3. In Accordance with	ΙΑΤΑ	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Identification Number	: 2.1	A.
Hazard Class	: UN1075	
Label Codes	: 2.1	2
ERG Code (IATA)	: 10L	
14.4. In Accordance with	TDG	
Proper Shipping Name	: PETROLEUM GASES, LIQUEFIED	
Hazard Class	: 2.1	
Identification Number	: UN1075	•
Label Codes	: 2.1	2

SECTION 15: REGULATORY INFORMATION

US Federal Regulations 15.1.

Sales Gas		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Sudden release of pressure hazard	
	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Fuel gases, crude oil distillates (68476-29-9)		
Listed on the United States TSCA (Toxic Substances (Control Act) inventory	
Ethane (74-84-0)		
Listed on the United States TSCA (Toxic Substances (Control Act) inventory	
Ethylene (74-85-1)		
Listed on the United States TSCA (Toxic Substances (Control Act) inventory	
Subject to reporting requirements of United States S	SARA Section 313	
SARA Section 313 - Emission Reporting	1%	
Hydrogen (1333-74-0)		
Listed on the United States TSCA (Toxic Substances C	Control Act) inventory	
Methane (74-82-8)		
Listed on the United States TSCA (Toxic Substances C	Control Act) inventory	
Propene (115-07-1)		
Listed on the United States TSCA (Toxic Substances C	· ·	
Subject to reporting requirements of United States S	SARA Section 313	
SARA Section 313 - Emission Reporting	1 %	
5.2. US State Regulations		
Ethane (74-84-0)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substar	nce List	
U.S Pennsylvania - RTK (Right to Know) List		
Ethylene (74-85-1)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substar	nce List	
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- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Hydrogen (1333-74-0)

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

Methane (74-82-8)

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

Propene (115-07-1)

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

15.3. Canadian Regulations

Fuel gases, crude oil distillates (68476-29-9) Listed on the Canadian DSL (Domestic Substances List)

Ethane (74-84-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene (74-85-1)

Listed on the Canadian DSL (Domestic Substances List)

Hydrogen (1333-74-0)

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)

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

Date of Preparation or Latest	: 10/31/2018
Revision	
Other Information	: This documen

: 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:

H280	Contains gas under pressure; may explode if heated
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1B	Carcinogenicity Category 1B
Flam. Gas 1	Flammable gases Category 1
Muta. 1A	Germ cell mutagenicity Category 1A
Press. Gas (Comp.)	Gases under pressure Compressed gas
Press. Gas (Liq.)	Gases under pressure Liquefied gas
Repr. 1A	Reproductive toxicity Category 1A
Simple Asphy	Simple Asphyxiant
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas

Safety Data Sheet SDS No. 15053

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).

[H280	Contains gas under pressure; may explode if heated
	H332	Harmful if inhaled
	H336	May cause drowsiness or dizziness
	H340	May cause genetic defects
	H350	May cause cancer
-	H360	May damage fertility or the unborn child
	H373	May cause damage to organs through prolonged or repeated exposure
	H402	Harmful to aquatic life
	H412	Harmful to aquatic life with long lasting effects
NFPA Health Hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.		
NFPA Fire Hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.		
NFPA I	Reactivity Hazard	: 0 - Material that in themselves are normally stable, even under fire conditions.
NFPA S	Specific Hazards	: SA - This denotes gases which are simple asphyxiants.

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)