

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: 6182

Revision Date: 10/31/2018 Date of Issue: 11/16/2015 Version: 1.0

# **SECTION 1: IDENTIFICATION**

#### 1.1. **Product Identifier**

Product Form: Mixture

**Product Name:** Propane (Odorized)

Synonyms: Dimethylmethane; Liquefied Petroleum Gas (LPG)

### **Intended Use of the Product**

Light gases from distilled and catalytically-cracked petroleum oil consisting of hydrocarbons having numbers in the range of C₃

through C<sub>4</sub>+.

#### 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 Hess.com website.

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

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

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

#### **Classification of the Substance or Mixture** 2.1.

# **GHS-US/CA Classification**

Simple Asphy

Flam. Gas 1 H220 H280 Press. Gas (Liq.)

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)

: 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): P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

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.

### Other Hazards

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

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

No data available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Propane	(CAS-No.) 74-98-6	80 - 85	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
Propene	(CAS-No.) 115-07-1	15 - 16.5	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
			Aquatic Acute 3, H402
			Aquatic Chronic 3, H412
Ethane	(CAS-No.) 74-84-0	0.5 - 1.5	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280
Isobutane	(CAS-No.) 75-28-5	0.2 - 1	Simple Asphy
			Flam. Gas 1, H220
			Press. Gas (Liq.), H280

Full text of H-phrases: see Section 16.

### **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:** 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. Asphyxia by lack of oxygen: risk of death.

**Inhalation:** This product is considered non-toxic by inhalation. Inhalation of high concentrations may cause central nervous system depression such as dizziness, drowsiness, headache, and similar narcotic symptoms, but no long-term effects. Numbness, a "chilly" feeling, and vomiting have been reported from accidental exposures to high concentrations.

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.

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<sup>\*</sup>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%).

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

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.

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 facepiece and full protective clothing.

**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.

**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.

### 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.

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**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.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Do not breathe gas.

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 hydrocarbons having numbers in the range of  $C_3$  through  $C_4+$ .

### 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.

Propane (74-98-6)			
USA OSHA			
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1800 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
USA IDLH	US IDLH (ppm)	2100 ppm (10% LEL)	
Alberta	OEL TWA (ppm)	1000 ppm	
British Columbia	OEL TWA (ppm)	1000 ppm	
Québec	VEMP (mg/m³)	1800 mg/m³	
Québec	VEMP (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/m³	
Alberta	OEL TWA (ppm)	500 ppm	
British Columbia	OEL TWA (ppm)	500 ppm	
Ontario	OEL TWA (ppm)	500 ppm	
Ethane (74-84-0)			
Alberta	OEL TWA (ppm)	1000 ppm	
British Columbia	OEL TWA (ppm)	1000 ppm	
Isobutane (75-28-5)			
USA ACGIH	ACGIH STEL (ppm)	1000 ppm (explosion hazard)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	

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USA NIOSH	NIOSH REL (TWA) (ppm)	800 ppm
Ontario	OEL STEL (ppm)	1000 ppm
Ontario	OEL TWA (ppm)	800 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. Oxygen detectors should be used when asphyxiating gases may be released.

**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

Physical State : Gas

**Appearance** : Colorless gas. Cold vapor cloud may be white but the lack of visible gas

cloud does not indicate absence of gas. A colorless liquid under pressure.

Odor : Odorless

Odor Threshold: Not availablepH: Not availableEvaporation Rate: Not available

Melting Point : Not available

Freezing Point : Not available

Boiling Point : -42.1 °C (-43.78 °F)

Flash Point : -104 °C (-155.2 °F)

Auto-ignition Temperature : 450 °C (842 °F)

Decomposition Temperature : Not available

Flammability (solid, gas) : Extremely flammable gas

Lower Flammable Limit : 2.1 % Upper Flammable Limit : 9.5 %

**Vapor Pressure** : 109.73 psig @70°F (21.1°C) for Propane

Relative Vapor Density at 20°C : 1.56 @32°F (0°C) for Propane

Relative Density : Not available

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Specific Gravity : 0.531 (H2 = 1) @32°F (0°C) for Propane Solubility : Slight (62.4 ppm) @ 77°F (25°C) for Propane

Partition Coefficient: N-Octanol/Water : Not available Viscosity : Not available

**Explosive Properties** : Contains gas under pressure; may explode if heated

# **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.
- **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): Not classified

LD50 and LC50 Data: Not 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 Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** This product is considered non-toxic by inhalation. Inhalation of high concentrations may cause central nervous system depression such as dizziness, drowsiness, headache, and similar narcotic symptoms, but no long-term effects. Numbness, a "chilly" feeling, and vomiting have been reported from accidental exposures to high concentrations.

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.

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: None expected under normal conditions of use.

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

### LD50 and LC50 Data:

Propane (74-98-6)	
LC50 Inhalation Rat	> 800000 ppm (Exposure time: 15 min)

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Propene (115-07-1)		
LC50 Inhalation Rat	> 65000 ppm/4h	
Ethane (74-84-0)		
LC50 Inhalation Rat	658 mg/l/4h	
Isobutane (75-28-5)		
LC50 Inhalation Rat	658 mg/l/4h	
LC50 Inhalation Rat	11000 ppm	
Propene (115-07-1)		
IARC Group	3	

# SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

Propene (115-07-1)	
ErC50 (algae)	33.39 mg/l

### 12.2. Persistence and Degradability

Propane (Odorized)		
	Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

Propane (Odorized)		
Bioaccumulative Potential	Not established.	
Propane (74-98-6)		
Log Pow	2.3	
Propene (115-07-1)		
Log Pow	<= 2.8	
Ethane (74-84-0)		
Log Pow	<= 2.8	
Isobutane (75-28-5)		
BCF Fish 1	1.57 - 1.97	
Log Pow	2.88 (at 20 °C)	

# 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 : PROPANE MIXTURE

Hazard Class : 2.1 Identification Number : UN1978 Label Codes : 2.1



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14.3.

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**ERG Number** : 115 **14.2. In Accordance with IMDG** 

Proper Shipping Name : PROPANE MIXTURE

Hazard Class : 2.1
Identification Number : UN1978
Label Codes : 2.1
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

Proper Shipping Name : PROPANE MIXTURE

Identification Number: 2.1Hazard Class: UN1978Label Codes: 2.1ERG Code (IATA): 10L

In Accordance with IATA



Proper Shipping Name : PROPANE MIXTURE

Hazard Class : 2.1 Identification Number : UN1978 Label Codes : 2.1





### **SECTION 15: REGULATORY INFORMATION**

# 15.1. US Federal Regulations

Propane (Odorized)		
SARA Section 311/312 Hazard Classes Fire hazard		
	Sudden release of pressure hazard	
	Immediate (acute) health hazard	
Propane (74-98-6)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

# Propene (115-07-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting 19

Ethane (74-84-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Isobutane (75-28-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. US State Regulations

### Propane (74-98-6)

- 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

### Ethane (74-84-0)

- 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

### Isobutane (75-28-5)

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- 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

### 15.3. Canadian Regulations

Propane (	74-98-6)
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Listed on the Canadian DSL (Domestic Substances List)

Propene (115-07-1)

Listed on the Canadian DSL (Domestic Substances List)

Ethane (74-84-0)

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 or Latest** 

: 10/31/2018

Revision

: 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:**

Other Information

H280	Contains gas under pressure; may explode if heated	
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3	
Flam. Gas 1	Flammable gases Category 1	
Flam. Liq. 1	Flammable liquids Category 1	
Press. Gas (Liq.)	Gases under pressure Liquefied gas	
Simple Asphy	Simple Asphyxiant	
H220	Extremely flammable gas	
H224	Extremely flammable liquid and vapor	
H280	Contains gas under pressure; may explode if heated	
H402	Harmful to aquatic life	
H412	Harmful to aquatic life with long lasting effects	

NFPA Health Hazard : 1 - Materials that, under emergency conditions, can cause

 $significant\ irritation.$ 

NFPA Fire Hazard : 4 - Materials that rapidly or completely vaporize at

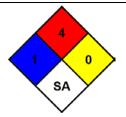
atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

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NFPA Reactivity Hazard : 0 - Material that in themselves are normally stable, even

under fire conditions.

NFPA 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.

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