

<b>MATERIAL NAME:</b> Propane		<b>SDS #:</b> MMP-009
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## SAFETY DATA SHEET

### SECTION 1 ♦ IDENTIFICATION



Magellan Midstream Partners One Williams Center Tulsa, OK 74172		For Emergency Source Information Contact: ➤ 3E Contact: (877-852-0015 or +1 (760) 602-8700
<b>GHS PRODUCT IDENTIFIER:</b> PROPANE	<b>CHEMICAL FAMILY:</b> Petroleum Hydrocarbon	<b>PRODUCT USES:</b> Used primarily as a fuel source for internal combustion engines.

### SECTION 2 \* HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

Flammable Gas - Category 1	Gas Under Pressure-Liquefied Gas
May contain or release poisonous hydrogen sulfide gas	

#### GHS LABEL ELEMENTS

Propane		
GHS PICTOGRAMS	SIGNAL WORD	
		<b>DANGER</b>

#### HAZARD STATEMENTS

Contains gas under pressure, may explode if heated	Extremely flammable gas
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#### PRECAUTIONARY STATEMENTS

##### *Prevention*

Do not eat, drink or smoke when using this product	Protect from sunlight, store in ventilated place
Wash thoroughly after handling	Do not breathe gas/mist/vapors/spray
No smoking. Keep away from heat/sparks/open flames/hot surfaces	

##### *Response*

Eliminate all ignition sources if safe to do so	
Leaking gas fire: Do not extinguish, unless leak can be stopped safely	
Store in ventilated place	IF exposed or concerned: Call a POISON CENTER or doctor/physician

##### *Storage*

Store in a well-ventilated place Keep cool	Protect from sunlight
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##### *Disposal*

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### SUPPLIER INFORMATION

Magellan Midstream Partners	One Williams Center	Tulsa, OK 74172
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### SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Propane	74-98-6	60-100
n-butane	106-97-8	0-10
Isobutane	75-28-5	0-10
Ethane	74-84-0	0-10
Methane	74-82-8	0-1

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Hydrogen Sulfide	7783-06-4	0-0.5
<b>SECTION 4 + FIRST AID MEASURES</b>		
<b>EYES:</b> Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids, Get Medical Aid.		
<b>SKIN:</b> Quickly remove contaminated clothing. In case of frostbite or freeze burns seek immediate medical attention.		
<b>INGESTION:</b> Risk is low since it is a gas. Call a physician and/or transport to an emergency facility immediately.		
<b>INHALATION:</b> Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give Cardiopulmonary Resuscitation. If breathing is difficult, give oxygen.		
NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY		
<b>SECTION 5 % FIRE-FIGHTING MEASURES</b>		
<b>EXTREMELY FLAMMABLE!</b> This material is extremely flammable/explosive! Exposure to materials adjacent to container may start addition fires/explosions. Keep any source of heat away from material, e.g., smoking, heat, sparks.		
<b>SUITABLE EXTINGUISHING MEDIA:</b> Stop flow of material first if it can be done safely. Water fog, dry chemical, foam, or Carbon Dioxide. Use water spray to cool nearby containers and structure exposed to fire. Water fog or spray are of value in cooling tanks and containers but may not achieve extinguishment.		
<b>HAZARDOUS REACTIONS/DECOMPOSITION:</b> Burning or excessive heating may produce carbon monoxide and carbon dioxide, also other harmful gases/vapors including oxides and/or other compounds of chlorine, manganese, and bromine.		
<b>SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS:</b> For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water. Notify appropriate authorities if liquid enters sewer/waterways.		
SEE SECTION 9 FOR FLAMMABILITY PROPERTIES		
<b>SECTION 6 ❖ ACCIDENTAL RELEASE MEASURES</b>		
<b>PERSONAL PRECAUTIONS</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Use personal protective equipment. All equipment used when handling the product must be grounded. Ensure adequate ventilation. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Stop leak if you can do it without risk.	
<b>METHODS FOR CONTAINMENT</b>	A gas suppressing foam may be used to reduce gas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike far ahead of liquid spill for later disposal.	
<b>METHODS FOR CLEANING UP</b>	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.	
<b>OTHER INFORMATION</b>	Water spray may reduce gas; but may not prevent ignition in closed spaces.	
<b>SECTION 7 ✕ HANDLING AND STORAGE</b>		
Prior to working with this product workers should be trained on its proper handling and storage		
<b>PRECAUTIONS FOR SAFETY HANDLING</b>	<ul style="list-style-type: none"> <li>➤ Handle as a flammable gas.</li> <li>➤ Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.</li> <li>➤ Ensure adequate ventilation, keep away from open flames, hot surfaces and sources of ignition.</li> <li>➤ Do not allow back feed into container</li> <li>➤ Purge air from system before introducing gas</li> <li>➤ Use properly selected piping and equipment for this material</li> </ul>	
<b>STORAGE PROCEDURES</b>	<ul style="list-style-type: none"> <li>➤ Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers.</li> </ul>	

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	<ul style="list-style-type: none"> <li>➤ Store upright with valve protection cap in place and firmly secured to prevent falling or being knocked over.</li> <li>➤ Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive gas. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.</li> <li>➤ Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code".</li> <li>➤ Avoid storage near incompatible materials.</li> </ul>
<b>INCOMPATIBILITIES</b>	<ul style="list-style-type: none"> <li>➤ Keep away from strong oxidizers.</li> </ul>

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

**EXPOSURE LIMITS**

Chemical Name	ACGIH TLV (2017)	OSHA PEL	NIOSH IDLH
Propane	TWA: Not Listed	TWA: 1,000 ppm	2,100 ppm
Butane	TWA: None STEL: 1,000 ppm	TWA: None	800 ppm (REL)
Ethane	TWA: 1,000 ppm	TWA: None	TWA: None
Methane	TWA: 1,000 ppm	TWA: None	TWA: None
Hydrogen Sulfide	TWA: 1 ppm STEL: 5 ppm	Ceiling: 20 ppm Peak: 50 ppm	100 ppm

**ENGINEERING CONTROLS:** Use adequate ventilation to keep gas concentrations of this product below occupational exposure and flammability limits, particularly in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

- **EYES:** Eye protection (ANSI Z87.1 approved) should be worn whenever there is a likelihood of misting or splashing/spraying liquid. Suitable eyewash station should be available. Contact lenses must not be worn.
- **SKIN/BODY:** Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for specific information.
- **HAND PROTECTION:** Gloves constructed of nitrile, neoprene, or PVC are recommended. Consult manufacturer specifications for specific information.
- **RESPIRATORY PROTECTION:** A NIOSH approved air purifying respirator (APR) with properly selected cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by APRs is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where APRs may not provide adequate protection.
- **OTHER HYGIENIC AND WORK PRACTICES:** Use good personal hygiene practices. In case of skin contact, wash with mild soap and water or a waterless hand cleaner. Immediately remove soaked clothing and wash thoroughly before reuse.

**SECTION 9 ↵ PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT (760 MM HG):</b> -44 °F/ -42.2 °C	<b>PERCENT VOLATILE BY VOLUME:</b> 100%
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b> 0.59	<b>VISCOSITY UNITS, TEMP:</b> Not Applicable
<b>EVAPORATION RATE (BuAc = 1):</b> Unavailable	<b>GAS DENSITY (AIR =1):</b> 1.5
<b>VAPOR PRESSURE AT 25°C:</b> 8.4 Atmospheres	<b>SOLUBILITY IN WATER:</b> Insoluble
<b>APPEARANCE AND ODOR:</b> Colorless, odorless gas unless odorized, then rotten eggs odor	
<b>FLASH POINT:(Method Used)</b> NA (Gas)	<b>FLAMMABLE LIMITS:</b> LEL: 2.1% UEL: 9.5%
<b>AUTOIGNITION TEMPERATURE:</b> 500 °F / 260 °C	<b>VOC CONTENT:</b> 100%

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**SECTION 10 ☒ STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable under normal temperatures and pressures

**HAZARDOUS REACTION POTENTIAL:** Will not occur

**CONDITIONS TO AVOID:** Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

**INCOMPATIBLE PRODUCTS:** Keep away from strong oxidizers.

**MATERIALS TO AVOID:** Keep away from strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

**HAZARDOUS POLYMERIZATION:** Has not been reported.

**SECTION 11 ☠ TOXICOLOGICAL INFORMATION**

*PROPANE*

Propane is a simple asphyxiant at high concentrations, with reports of mild irritation. Signs of exposure may include dizziness and drowsiness.

**Toxicity**

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50</sub> (oral)	Rat	Not Available	LD <sub>50</sub> (dermal)	Rabbit	Not Available	LC <sub>50</sub> (inh)	Rat (15 minutes)	>800,000 ppm

Specific organ toxicity, single exposure: No data available | Specific organ toxicity, repeated exposure: No data available

**CARCINOGENICITY**

<b>IARC</b>	Not Listed
<b>NTP</b>	Not Listed
<b>California (Prop 65):</b> Not Listed	<b>NIOSH:</b> Not Listed   <b>ACGIH:</b> Not Listed   <b>OSHA:</b> Not Listed

**MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS**

Respiratory or Skin sensitization: No data available	Germ cell mutagenicity: No data available
Reproductive toxicity: No data available	Teratogenicity: No data available.
Skin Corrosion/irritation: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product	Serious eye damage: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product
Synergistic effects: No data available	Aspiration hazard: No data available

RTECS #: TX2275000

*BUTANE*

Butane is a colorless gas with no odor, although an odorant is sometimes added to the gas to provide warning of its presence. Health effects may include drowsiness, narcosis, asphyxia; cardiac arrhythmia at high concentrations and frostbite from contact with liquid.

**TOXICITY**

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LC <sub>50</sub> (inh)	Mouse (2 hours)	680 g/M <sup>3</sup>	LD <sub>50</sub> (dermal)	Rabbit	No Data	LC <sub>50</sub> (inh)	Rat (4 hours)	658 g/M <sup>3</sup>

Specific organ toxicity, single exposure: May cause drowsiness or dizziness | Specific organ toxicity, repeated exposure: may cause damage to organs from repeated or prolonged exposure. May cause nervous system damage.

**CARCINOGENICITY**

Testicular tumors shown in rats.	
<b>IARC</b>	Not Listed
<b>NTP</b>	Not Listed

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<b>California (Prop 65):</b> Not listed as carcinogen		<b>NIOSH:</b> Not Listed		<b>ACGIH:</b> Not Listed		<b>OSHA:</b> Not Listed		
<b>MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS</b>								
Respiratory or Skin sensitization: No data available				Germ cell mutagenicity: No data available				
Reproductive toxicity: No data available				Teratogenicity: No data available				
Skin Corrosion/irritation: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product				Serious eye damage: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product				
Synergistic effects: No data available				Aspiration hazard: No data available				
RTECS #: EJ4200000								
<b>METHANE</b>								
Methane is a flammable, colorless gas with no odor. A high concentration can displace oxygen in the air. If less oxygen is available to breathe, symptoms such as rapid breathing, rapid heart rate, clumsiness, emotional upsets and fatigue can result. As less oxygen becomes available, nausea and vomiting, collapse, convulsions, coma and death can occur. Symptoms occur more quickly with physical effort. Lack of oxygen can cause permanent damage to organs including the brain and heart.								
Toxicity								
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50</sub> (oral)	Rat	No Data	LD <sub>50</sub> (dermal)	Rabbit	No Data	LC <sub>50</sub> (inh)	Mouse (2 hours)	500,000 ppm
Specific organ toxicity, single exposure: May cause drowsiness or dizziness				Specific organ toxicity, repeated exposure: may cause damage to organs from repeated or prolonged exposure. May cause nervous system damage.				
<b>CARCINOGENICITY</b>								
<b>IARC</b>		Not Listed						
<b>NTP</b>		Not Listed						
<b>California (Prop 65):</b> Not listed as carcinogen		<b>NIOSH:</b> Not Listed		<b>ACGIH:</b> Not Listed		<b>OSHA:</b> Not Listed		
<b>MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS</b>								
Respiratory or Skin sensitization: No data available				Germ cell mutagenicity: No data available				
Reproductive toxicity: No data available				Teratogenicity: No data available				
Skin Corrosion/irritation: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product				Serious eye damage: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product				
Synergistic effects: No data available				Aspiration hazard: No data available				
RTECS #: PA1490000								
<b>ETHANE</b>								
Ethane is a flammable, colorless gas with no odor. A high concentration can displace oxygen in the air. If less oxygen is available to breathe, symptoms such as rapid breathing, rapid heart rate, clumsiness, emotional upsets and fatigue can result. As less oxygen becomes available, nausea and vomiting, collapse, convulsions, coma and death can occur. Symptoms occur more quickly with physical effort. Lack of oxygen can cause permanent damage to organs including the brain and heart.								
Toxicity								
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50</sub> (oral)	Rat	No Data	LD <sub>50</sub> (dermal)	Rabbit	No Data	LC <sub>50</sub> (inh)	Mouse (2 hours)	No Data
Specific organ toxicity, single exposure: May cause drowsiness or dizziness				Specific organ toxicity, repeated exposure: may cause damage to organs from repeated or prolonged exposure. May cause nervous system damage.				

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<b>CARCINOGENICITY</b>			
<b>IARC</b>	Not Listed		
<b>NTP</b>	Not Listed		
<b>California (Prop 65):</b> Not listed as carcinogen	<b>NIOSH:</b> Not Listed	<b>ACGIH:</b> Not Listed	<b>OSHA:</b> Not Listed
<b>MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS</b>			
Respiratory or Skin sensitization: No data available		Germ cell mutagenicity: No data available	
Reproductive toxicity: No data available		Teratogenicity: No data available	
Skin Corrosion/irritation: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product		Serious eye damage: Gas is not irritating, however, frostbite and burns may occur due to being a liquefied product	
Synergistic effects: No data available		Aspiration hazard: No data available	
RTECS #: KH3800000			

<b>HYDROGEN SULFIDE</b>								
Hydrogen sulfide is a toxic, flammable colorless gas with a distinct "rotten-egg" smell. Inhalation of high concentrations can cause severe eye, nose and mucous membrane damage, dizziness, headache, and nausea. Exposure to higher concentrations can result in unconsciousness, coma, and death. Chronic exposure can damage memory, nerve tissue, facial muscles, and eyes.								
<b>Toxicity</b>								
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50</sub> (oral) Solution	Rat	2,300 µg/kg	LD <sub>50</sub> (dermal)	Rabbit	No Data	LC <sub>50</sub> (inh)	Mouse (1 hour)	634 ppm
Specific organ toxicity, single exposure: May cause severe eye, nose and mucous membrane irritation. Higher concentrations may cause chemical asphyxiation.				Specific organ toxicity, repeated exposure: Not Classified				

<b>CARCINOGENICITY</b>			
<b>IARC</b>	Not Listed		
<b>NTP</b>	Not Listed		
<b>California (Prop 65):</b> Not Listed	<b>NIOSH:</b> Not Listed	<b>ACGIH:</b> Not Listed	<b>OSHA:</b> Not Listed
<b>MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS</b>			
Respiratory or Skin sensitization: No data available		Germ cell mutagenicity: Not Classified	
Reproductive toxicity: Not Classified		Teratogenicity: Not Classified.	
Skin Corrosion/irritation: will cause skin irritation		Serious eye damage, irritation -rabbit: serious eye irritation	
Synergistic effects: No Data		Aspiration hazard: May be fatal if swallowed and enters airway.	
RTECS #: MX1225000			

<b>SECTION 12 * ECOLOGICAL INFORMATION</b>					
<b>PROPANE</b>					
<b>TOXICITY</b>					
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
EC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
<b>PERSISTENCE AND DEGRADABILITY/BIOACCUMULATIVE POTENTIAL/ MOBILITY IN SOIL</b>					
No data available					
<b>METHANE/ETHANE</b>					
<b>TOXICITY</b>					
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result

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LC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
EC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
<b>PERSISTENCE AND DEGRADABILITY/MOBILITY IN SOIL</b>					
No data available					
<b>BIOACCUMULATIVE POTENTIAL</b>					
Log L <sub>ow</sub>	No Data		BCF	No Data	
K <sub>ow</sub> (n-Octanol/Water Partition Coefficient)			No Data		
<b>BUTANE</b>					
<b>TOXICITY</b>					
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
EC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data
<b>PERSISTENCE AND DEGRADABILITY/MOBILITY IN SOIL</b>					
No data available					
<b>BIOACCUMULATIVE POTENTIAL</b>					
Log L <sub>ow</sub>	2.89		BCF	1.78 - 1.97	
K <sub>ow</sub> (n-Octanol/Water Partition Coefficient)			2.89		
<b>HYDROGEN SULFIDE</b>					
<b>TOXICITY</b>					
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LC <sub>50</sub>	Bluegill	0.0448 mg/L 96 hours	EC <sub>50</sub>	Water Flea	No Data
LC <sub>50</sub>	Bluegill	0.016 mg/L 96 hours	EC <sub>50</sub>	Microtox	No Data
<b>BIOACCUMULATIVE POTENTIAL</b>					
Log P <sub>ow</sub>	No Data		BCF	No Data	
<b>SECTION 13 * DISPOSAL CONSIDERATIONS</b>					
Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations					
Dispose of in accordance with local regulations.					
Waste Disposal Method: Should not be released into the environment.					
Contaminated Packaging: Dispose of in accordance with local regulations.					
<b>SECTION 14 ☐ TRANSPORTATION INFORMATION</b>					
Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations					
Element	U.S. DOT		IMDG		IATA
UN Number	UN 1075		UN 1075		UN 1075
UN Proper Shipping Name	Petroleum Gases, Liquefied		Petroleum Gases, Liquefied		Petroleum Gases, Liquefied
Hazard Class	2.1		2.1		2.1
Placard/Label					
Environmental Hazard	No		No		No

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Packing Group	Not applicable	Not applicable	Not applicable
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**SECTION 15 ) REGULATORY INFORMATION**

Agency	Listing Guidance only, consult specific regulations	
OSHA	All ingredients are listed as hazardous under 29 CFR 1910.1200	
CERCLA RQ's (40 CFR Part 302)	Hydrogen Sulfide- TPQ: 500 pounds and EPCRA RQ: 100 pounds	
CERCLA/SARA - Section 311/312 (Title III Hazard Categories):	Acute Health: Yes	Chronic Health: No
	Fire Hazard: Yes	Pressure Hazard: No
	Reactive Hazard: No	
CERCLA RQ's (40 CFR Part 102)	Hydrogen Sulfide – 100 pounds	
TSCA 8(a)	Not Listed	
TSCA 8(b)	Not Listed	
SARA (40 CFR Part 355) TPQ's	Hydrogen Sulfide	
SARA 304/311/312 extremely hazardous substances	Hydrogen Sulfide	
SARA 302/304 emergency planning and notification	Hydrogen Sulfide	
SARA 302/304/311/312 hazardous chemicals	Hydrogen Sulfide	
RCRA	None Listed	
State Regulations: Massachusetts, New Jersey, New York and Pennsylvania	Propane and Hydrogen Sulfide	
SARA 311/312 SDS distribution - chemical inventory - hazard identification	Hydrogen Sulfide: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard.	
EPA Form R Toxic Chemical Release Inventory	Hydrogen Sulfide	
Clean Water Act (CWA) 307	Not Listed	
Clean Water Act (CWA) 311	Not Listed	
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	
Clean Air Act Section 602 Class I Substances	Not Listed	
Clean Air Act Section 602 Class II Substances	Not Listed	

**SECTION 16 ¶ OTHER INFORMATION**



**NFPA LABEL**



**HMIS III LABEL**

Personal Protection Index  
NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

**Acronym List**

°F=degrees Fahrenheit	°C=degrees Celsius	ACGIH= American Conference of Industrial Hygienists
APR=Air Purifying Respirator	BCF= Bioconcentration Factor	BuAc=Butyl Acetate
CAS=Chemical Abstract Service	CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act	



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CHEMTREC= Chemical Transportation Emergency Center	CNS=Central Nervous System	CWA=Clean Water Act
DOT=Department of Transportation	EC50= Effective Concentration Fifty	EPA=Environmental Protection Agency
g/Kg=Grams per Kilogram	g/M <sup>3</sup> =Grams per Cubic Meter	GHS=Global Harmonization System
H <sub>2</sub> O=Water	HAP=Hazardous Air Pollutants	HMIS= Hazardous Materials Identification System
IARC= International Agency for Research on Cancer	IATA= International Air Transport Association	IMDG= International Maritime Dangerous Goods
LC <sub>50</sub> =Lethal Concentration Fifty	LD <sub>50</sub> =Lethal Dose Fifty	LEL=Lower Explosive Limit
Log P <sub>ow</sub> =Octanol/water partition coefficient	mg/Kg=Milligrams per Kilogram	mg/L=Milligrams per Liter
mL/Kg=Milliliters per Kilogram	mm HG=millimeters of mercury	NFPA=National Fire Protection Association
NIOSH= National Institute for Occupational Safety and Health	NTP=National Toxicology Program	OSHA=Occupational Safety and Health Administration
PEL=Permissible Exposure Limit	ppm=Parts per Million	RCRA=Resource Conservation and Recovery Act
RQ=Reportable Quantities	RTECS=Registry of Toxic Effects of Chemical Substances	SARA= Superfund Amendments and Reauthorization Act
SDS=Safety Data Sheet	STEL=Short Term Exposure Limit	
TLV=Threshold Limit Value	TPQ=Threshold Planning Quantity	TSCA=Toxic Substance and Control Act
TWA=Time Weighted Average	UEL=Upper Explosive Limit	VOC=Volatile Organic Compounds
°F=degrees Fahrenheit	°C=degrees Celsius	ACGIH= American Conference of Industrial Hygienists
APR=Air Purifying Respirator	BCF= Bioconcentration Factor	BuAc=Butyl Acetate
CANUTEC= Canadian Transport Emergency Centre	CAS=Chemical Abstract Service	CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act
CHEMTREC= Chemical Transportation Emergency Center	CNS=Central Nervous System	CWA=Clean Water Act
DOT=Department of Transportation	EC50= Effective Concentration Fifty	EPA=Environmental Protection Agency
g/Kg=Grams per Kilogram	g/M <sup>3</sup> =Grams per Cubic Meter	GHS=Global Harmonization System
H <sub>2</sub> O=Water	HAP=Hazardous Air Pollutants	HMIS= Hazardous Materials Identification System
IARC= International Agency for Research on Cancer	IATA= International Air Transport Association	IMDG= International Maritime Dangerous Goods
LC <sub>50</sub> =Lethal Concentration Fifty	LD <sub>50</sub> =Lethal Dose Fifty	LEL=Lower Explosive Limit
Log P <sub>ow</sub> =Octanol/water partition coefficient	mg/Kg=Milligrams per Kilogram	mg/L=Milligrams per Liter
mL/Kg=Milliliters per Kilogram	mm HG=millimeters of mercury	NFPA=National Fire Protection Association
NIOSH= National Institute for Occupational Safety and Health	NTP=National Toxicology Program	OSHA=Occupational Safety and Health Administration
PEL=Permissible Exposure Limit	ppm=Parts per Million	RCRA=Resource Conservation and Recovery Act
RQ=Reportable Quantities	SARA= Superfund Amendments and Reauthorization Act	SDS=Safety Data Sheet
SETIQ= Emergency Transportation System for the Chemical Industry; Mexico	STEL=Short Term Exposure Limit	TPQ=Threshold Planning Quantity

MATERIAL NAME: Propane		SDS #: MMP-009
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TSCA=Toxic Substance and Control Act	TWA=Time Weighted Average	UEL=Upper Explosive Limit
VOC=Volatile Organic Compounds		


**SDS REVISIONS:** Sections 3, 8, 11, 12 and 15 ingredients.

**SDS CREATION DATE:** 07/02/16

**REVISION #1:** 04/19/17

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SDS DEVELOPER:   
Cass Willard, CIH

DATE: 04/19/17