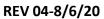


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<b>SECTION 1: PRODUC</b>	SECTION 1: PRODUCT AND COMPANY IDENTIFICATION		
Company Phone Number:	1-866-LNG-FUEL (564-3835)		
24 Hour Emergency Number:	1-800-424-9300		
SDS Information Number:	1-361-447-2040		
Product Name:	Liquefied Natural Gas		
Material Use:	Various		
	Stabilis Energy		
Manufacturer/Supplier:	3732 Highway 281		
	George West, TX 78022		
WHMIS Class:	A- Compressed Gas; 81- Flammable and Combustible Material- Division 1 Flammable Gases		
UN/PIN Number:	1972		
TOG Classification:	Class 2.1 Flammable Gases		
Chemical Family:	Hydrocarbon Liquid		
Chemical Formula:	CH4 (methane)		
Molecular Weight:	16.04 (methane)		
CAS Number:	74-82-8		
Trade Names/Synonyms:	Liquefied Methane I LNG		

SECTION 2: HAZARD(S	) IDENTIFICATION			
GHS Classification:	Extremely flammable gas	Extremely flammable gases.		
GHS Label Elements:	Contains refrigerated liqu	uefied gas; may cause cryogenic burns.		
DANGE Contains refrige May cause cryogenic	erated gas.	DANGER Extremely flammable gas. Keep away from sparks or open flames. No Smoking.		
Precautionary Statements	P210: Keep away from h	P202: Do not handle until all safety precautions have been read & understood. P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P282: Wear cold insulating gloves/face shield/eye protection.		
Hazard Statements	H281: Contains refrigera	H220: Extremely flammable gas. H281: Contains refrigerated gas; may cause cryogenic burns or injury. H261: In contact with water releases flammable gas.		
Chemical Stability	Stable.			
Incompatible Products	Keep away from air, oxy compounds and other h	gen, strong oxidizing agents, chlorine, fluoride alides.		
Reactivity Conditions	Keep away from source	Keep away from source of: Ignition, heat, high temperatures, flames, sparks, welding, static electricity, and other ignition sources.		
Decomposition Products	CO, CO2, fumes.	CO, CO2, fumes.		
Polymerization	N/A.			
Appearance/Odor:	Odorless, colorless liquid	. This product is not odorized.		
Flammable:		porization to gaseous phase.		
Potential Health Effects:	See Section 11 for more i	See Section 11 for more information.		





Potential Environmental Effects: See Section 12 for more information.	
Likely Routes of Exposure:	Eye and skin contact, acute inhalation.
Acute- Eye, Skin and Inhalation: Liquid or cold gas contact with skin or eyes could cause freezing or severe or burns. After vaporization, contact with burning gas may cause burns. CNS d and cardiac sensitization may occur at high gaseous concentrations approa- lower flammability limit.	
Chronic- Inhalation:	None
Ingestion:	None
Skin Absorption:	None

### **SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS**

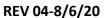
Component	CAS#	% by weight.	Exposure Limits (*)
Methane	74-82-8	95	Simple asphyxiant
Ethane	74-84-0	3	Simple asphyxiant
Propane	74-98-6	1	Simple asphyxiant
Nitrogen	7727-37-9	1	Simple asphyxiant

\*NOTE 1. See Section 8 for additional exposure limit information for C1 to C3Aiiphatic Hydrocarbon Gases (i.e., methane, ethane, propane).

<b>SECTION 4:</b>	SECTION 4: FIRST AID MEASURES		
Skin Contact:	Cryogenic burns. Remove constricting clothing. Do not thaw too rapidly. Transport to hospital immediately.		
Eye contact:	Immediately and briefly flush eyes with warm gentle flowing water. Do not attempt to re-warm. Get medical attention immediately.		
Inhalation:	Move to fresh air. Give artificial respiration if breathing has stopped. Call a physician.		
Ingestion:	Unlikely route of exposure as this is a gas at normal room temperature and pressure.		
General Advice:	Advice: Use extreme care in handling due to high flammability and risk of cryogenic burns.		

SECTION 5: FIRE-FIGHTING MEASURES		
Flammability:	Flammable gas	
Suitable Extinguishing Media:	Dry Chemical (Purple-K). To suppress or contain, use water fog or high expansion foam.	
Unsuitable Extinguishing Media: Do not direct water spray directly at LNG pool; this will only increase rate of vaporiz Do not use carbon dioxide or low expansion foams. Cold vapor is heavier than air an not readily disperse until warmed up. High expansion foam may be used to help con the vaporization rate.		
Products of Combustion: Carbon dioxide and carbon monoxide		
Protection of Firefighters: Very flammable after vaporization to gaseous phase. Firefighters should contained breathing apparatus (SCBA) in case of oxygen deficient atmost Combustible Gas Indicator to determine the extent of vapor cloud.		
Sensitivity to Static Discharge:	Ignitable by static	
Sensitivity to Mechanical Impact:	None	
Explosive Power:	Not known	

SECTION 6: ACCIDENTAL RELEASE MEASURE	
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Methods for Containment:	Evacuate area for 2000 foot (600 m) radius. Stay out of vapor cloud.
Methods for Clean-Up: Wear all protective equipment recommended in Section 8. Eliminate sou	
Other Information:	Allow to vaporize and disperse to atmosphere.

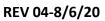
### **SECTION 7: HANDLING AND STORAGE**

Handling:	To be handled by trained personnel only, using equipment specifically designed for LNG, and following
nanunng.	approved operating procedures.
Storage:	Store only in vessels designed for LNG storage, and follow approved operating procedures. Store in a cool,
Storage.	dry, well ventilated place, out of direct sunlight, and away from heat, sparks and ignition sources.

#### **SECTION 8: EXPOSURE CONTROL, PERSONAL PROTECTION**

	Simple asphyxiant - Maintain minimum 19.5% oxygen (02) content (below 19.5% O2 is considered to be 02 deficient).		
	<u>Constituent</u>	ACGIH (8-hour TWA)	WorkSafeBC (8-hour TWA)
Exposure Limits:	Methane	Minimum 02 content	1000 ppm
	Ethane	Minimum 02 content	1000 ppm
	Propane	Minimum 02 content	1000 ppm
	Nitrogen	Simple asphyxiant	Simple asphyxiant
PPE:	Ensure use of proper PPE at all times when handling this product.		
Eye/face:	Face shield with other eye protection (safety glasses with side shields)		
Skin:	Insulated gloves, safety work boots, protective coveralls I clothing (e.g., Nomex coveralls).		
Respiratory:	Supplied air respiratory protection to be used (airline or self-contained breathing apparatus) in cases of oxygen deficient atmospheres		
Other Considerations:	Use extreme care in handling due to high flammability and risk of cryogenic burns.		
Engineering Controls:	Provide electrical ground for all parts of handling system. Provide adequate ventilation to maintain oxygen greater than 19.5% and methane less than 1% (which is approximately less than 20% of the methane lower explosive limit). Use of CGI is mandatory since product is odorless.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
Molecular Formula:	CH4	Melting Point:	-182.5°C	
Flash Point (°C):	-187.8	Density (g/ml):	0.45 at boiling point	
Physical State:	Liquid	Vapor Pressure:	466,000 mm Hg @ 25°C	
Color:	Colorless	Evaporation Rate:	Rapid	
Odor:	Odorless	Solubility in water (20°C):	24.4 parts per million (wt)	
Odor Threshold (ppm):	Not available	pH:	Not applicable	
Vapor Density:	>1 @-112 degrees C (Air= 1)	Partition Coefficient:	Octanol/water: 1.09 LogK0w	
Boiling Point (°C):	-161.5	Auto-ignition Temperature:	537 Celsius (Gas Phase)	
Freezing Point (°C):	-182.5	Flammability (solid, gas):	Flammable gas	
Lower Explosion Limit:	5% (by volume, gas phase)	Specific Gravity:	0.45 (water = 1)	





Upper	Explosion	Limit:

15% (by volume, gas phase)

Percent Volatile (by volume):

99%

SECTION 10: STABILITY AND REACTIVITY		
Chemical Stability:	Yes	
Incompatible Materials:	Strong oxidizers (e.g. peroxides, perchlorates), halogens (e.g. chlorine, bromine)	
Hazardous Decomposition Products:	None known	
Reactivity (and Under What Conditions):	None known	
Conditions to Avoid:	Static discharge, sparks, open flames/other ignition sources	

SECTION 11: TO	XICOLOGICAL INFORMATION	
LD50:	Not available	
LC50:	Not available	
Acute Effects:	Liquid or cold gas contact with skin or eyes could cause freezing or severe cryogenic burns. After vaporization, contact with burning gas may cause burns. Inhalation produces weak depressant effects on the CNS at high gaseous concentrations approaching the lower flammability limit.	
Chronic Effects:	Not available	
Carcinogenicity:	Not considered carcinogenic by IARC, NTP, ACGIH or OSHA.	
Reproductive Effects:	Not available	
Teratogenicity:	Not available	
Mutagenicity:	Not available	
Irritant:	Not available	
Sensitizer:	Not available	
Synergistic Effects:	Not available	

SECTION 12: ECOLOGICAL INFORMATION	
Ecotoxicity:	Not applicable
Persistence/ Degradability:	Not applicable
<b>Bioaccumulation/ Accumulation:</b>	Not applicable

SECTION 13:	DISPOSAL CONSIDERATIONS
Disposal:	Allow to vaporize and disperse to the atmosphere.



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### **SECTION 14: TRANSPORTATION INFORMATION**

TOG Classification:	2.1 Flammable Gases
UN/PIN Number:	1972
Shipping Name:	Methane, Refrigerated Liquid, or Natural Gas, Refrigerated Liquid with high methane content.
Special Shipping Information:	Transport only in shipping container designed for LNG and follow approved operating procedures.

	DOT	TDG	Mexico	IMDG	ΙΑΤΑ
UN Number	UN1972	UN1972	UN1972	UN1972	UN1972
UN Proper Shipping Name	NATURAL GAS, REFRIGERATED LIQUID (CRYOGENIC LIQUID, WITH HIGH METHANE CONTENT)	NATURAL GAS, REFRIGERATED LIQUID (CRYOGENIC LIQUID, WITH HIGH METHANE CONTENT)	NATURAL GAS, REFRIGERATED LIQUID (CRYOGENIC LIQUID, WITH HIGH METHANE CONTENT)	NATURAL GAS, REFRIGERATED LIQUID (CRYOGENIC LIQUID, WITH HIGH METHANE CONTENT)	NATURAL GAS, REFRIGERATED LIQUID (CRYOGENIC LIQUID, WITH HIGH METHANE CONTENT)
Transport Hazard Class(es)	2.1	2.1	2.1	2.1	2.1
Packing Group					
Environment	No.	No.	No.	No.	No.
Additional Information	ERG (2012) NUMBER: 115	ERG (2012) NUMBER: 115			

Note: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

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

WHMIS Class:

A- Compressed Gas; 81 -Flammable and Combustible Material- Division 1 Flammable Gases



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National Fire Protection Association (NFPA 704) Rating	gs: LEGEND
Health 2	0 = minimal hazard
Flammability 4	1 = slight hazard
Instability 0	2 =moderate hazard
(For methane from NFPA 325)	3 =severe hazard
	4 = extreme hazard
Prepared by:	
Stabilis Energy Health, Environment, Safety Group	Phone Number: 866-LNG-FUEL
	Preparation Date: January 1, 2015

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Information Sources: Various