SAFETY DATA SHEET Liquefied Natural Gas (LNG)

| 1 | . PRODUCT AND COMPANY IDENTIFIC | ATION |
|--|---|--|
| Product Code: Product Name: | 00016 Liquefied Natural Gas (LNG) | |
| Company Name: | Gas Innovations 18005 E. Hwy 225 La Porte, TX 77571 | |
| Web site address: Emergency Contact: Information: Product Category: Intended Use: Synonyms: | www.gasinnovations.comPhone Number:3E (within United States)Infotrac (outside of United States)Infotrac (outside of United States)Efrigerated gasIndustrial UseUN 1972 Natural Gas, RefrigeratedLiquid.Liquid. | +1 (281)471-2200 +1 (866)303-2640 +1 (352)323-3500 |
| 2. HAZARDS IDENTIFICATION | | |
| Flammable Gases: Gas Under Pressure: Symbol: | Category 1A Refrigerated Liquified gas | |
| GHS Signal Word: GHS Hazard Phrases: | Danger H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heat H261 - In contact with water releases flammable gases. P101 - If medical advice is needed, have a product conta P102 - Keep out of reach of children. | ed. iner or label at hand. |
| GHS Precaution Phrases: GHS Response Phrases: | P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking. P282 - Wear cold insulating gloves/face shield/eye protection. P336 - Thaw frosted parts with lukewarm water. Do not rub affected areas. P315 - Get immediate medical advice/attention. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. | |
| GHS Storage and Disposal Phrases: | P381 - Eliminate all ignition sources if safe to do so. P410 + P403 - Protect from sunlight. Store in a well-venti P233 - Keep container tightly closed. P241 - Use explosion-proof electrical, ventilating, lighting P243 - Take action to prevent static discharges | lated place. and all material-handling equipment. |
| Additional Hazards Information OSHA Regulatory Status | Use a back flow preventative device in the piping. Do not open the valve until connected to equipment prepa use and when empty. : This material is classified as hazardous under OSHA reg | ared for use. Close valve after each ulations. |

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Hazard Rating System:



| NFPA: | Special Hazard | |
|--|---|--|
| Potential Health Effects (Acute and Chronic): | | |
| Inhalation: | This material can act as a simple asphyxiant by dis include headache, dizziness, rapid breathing, incre cyanosis, muscular weakness, narcosis, numbness death. The effects of asphyxiation may be more rap consumption is increased. | placement of air. Symptoms of asphyxia ased pulse, mood changes, tremors, of the extremities, unconsciousness and bid during physical effort since oxygen |
| Skin Contact: | The vapors are not irritants, but direct contact of th cause frostbite, burns, permanent ocular and skin l | ne eyes, skin with cold vapors or liquid may esions. |
| Eye Contact: | The vapors are not irritants, but direct contact of the cause frostbite, burns, permanent ocular and skin I | e eyes, skin with cold vapors or liquid may esions. vallowed |
| Ingestion: | Received a likely route of exposure, may be narmal in sw | ione may have an increased consitivity to |
| Medical Conditions Generally Aggravated by Exposure: | asphyxiation. | ions may have an increased sensitivity to |
| 3. C | OMPOSITION/INFORMATION ON IN | GREDIENTS |
| CAS# | Hazardous Components (Chemical Name) | Concentration |
| 74-82-8 | Methane | >85% |
| 7727-37-9 | Nitrogen | <1% |
| | 4. FIRST AID MEASURES | |
| Emergency and Eirst | | |
| Aid Procedures: | | |
| In Case of Inhalation: | If breathing is difficult, remove victims to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen or administer artificial respiration. Get medical aid if irritation develops and persists. | |
| In Case of Skin Contact: | Liquefied gases may cause cryogenic burns or injury. Treat frostbitten skin by flushing or immersing affected areas in lukewarm water. Do not rub affected areas. Do not remove clothing that adheres due to freezing. After sensation has returned to the skin, keep skin warm, dry, and clean. Do not rub affected areas. Wash clothing before reuse. If blistering occurs, apply a sterile dressing. Seek immediate medical attention. | |
| In Case of Eye | For contact with the liquefied gas, remove contact lenses if present, hold eyes open and gently | |
| Contact: | flush the affected eye(s) with lukewarm water. Get i | mmediate medical advice/attention. |
| In Case of Ingestion: | Not a likely route of exposure. In the unlikely event of ingestion, obtain medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. | |
| Signs and Symptoms of Exposure: | Light hydrocarbon gases are simple asphyxiant and can cause anesthetic effects at high concentrations. Symptoms of overexposure, which are reversible if exposure is stopped, can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting. Continued exposure can lead to hypoxia, rapid breathing, numbness, unconsciousness and death. The signs of frostbite are a change in the color of the skin to grey or white, followed later by blisters. The skin may become inflamed and painful. | |

Show this safety data sheet to the doctor in attendance. Epinephrine and other sympathomimetic Note to Physician:

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drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

| 5. FIRE FIGHTING MEASURES | | | |
|--|---|--|--|
| Flash Pt: Method Used: Explosive Limits: Autoignition Pt: Suitable Extinguishing Media: Unsuitable Extinguishing Media: Fire Fighting Instructions: | C pplicable r level: 5% (Volume in air) Upper-level EL: 15% (Volume in air) C to 632°C hemical (Purple-K) and carbon dioxide are the most effective types of extinguishing media. ppress or contain, use water fog or high expansion foam. r is not a suitable agent for fighting an LNG fire directly because it causes expansion of the y increasing the rate of vaporization of the liquid to gas. ghters should wear self-contained breathing apparatus and full firefighting turnout gear. e-retardant clothing, gloves and proper eye protection need to be worn in any situation a there is the potential for LNG vapors to ignite accidentally. If safe to do so, try to remove on sources. Use non-sparking tools to shut off the gas. Do not try to extinguish the fire if the eak can't be stopped. If there is no risk to the surrounding area, let the fire burn itself out. If ed, use a combustible gas detector to establish a secure perimeter around the site. ad material may pool on the ground and flow toward lower points until the temperature rises e -100C (-148F). If the spill has not ignited, water spray can be used to direct flammable hir mixtures away from ignition sources. LNG vapors are heavier than air until the vapors n -180F. During a significant spill the vapors generated may travel long distances to a distant on source. y flammable, extremely cold liquid and gas. Forms explosive mixtures in air and with zing agents. A Rapid Phase Transition (RPT) can occur when there is a significant difference mperature between the LNG and a warmer liquid; this reaction can cause instantaneous rization of the LNG. The sudden increase in total volume occupied by the LNG may generate box wave (sudden generation of overpressure but without combustion). | | |
| Hazardous Combustion Products: | High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, Fireball forms if gas is ignited immediately after release. Toxic gases, aldehydes, soot. | | |
| 6. ACCIDENTAL RELEASE MEASURES | | | |
| Protective Precautions, Protective Equipment an Emergency Procedures: Environmental Precautio | Use proper personal protective equipment as indicated in Section 8. Stop leaking without risk. No action shall be taken involving any personal risk or without suitable training. Ins: Liquefied Natural Gas (LNG) will not pollute natural resources such as ground water, soil, wetlands, streams or beaches. It vaporizes quickly and completely, and because it is lighter than air, it does not contain any pollutants from the spill. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous. | | |
| Steps To Be Taken in Ca Material Is Released or S | Remove all sources of ignition. Ensure adequate ventilation. Notify relevant authorities pilled: in accordance with applicable regulations. Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. | | |

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| 7. HANDLING AND STORAGE | | | |
|--|---|--|--|
| Precautions To Be Taken in Handling: | To be handled by trained personnel only, using equipment specifically designed for LNG and following approved standard operating procedures. Cold burns may occur during filling operations. Wear appropriate personal protective equipment (see section 8) and use good industrial hygiene. Gas can accumulate in confined spaces and limit available oxygen. Use only with adequate ventilation. Take precautionary measures against static discharge. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To avoid fire, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Do not drag, drop, slide or roll cylinders. The uncontrolled release of a gas under pressure may cause physical harm. Use a suitable hand truck for cylinder movement. | | |
| Precautions To Be Taken in Storing: | Store only in containers compatible for Liquefied Natural Gas storage. Post area with proper signage such as no smoking, no open flames, personal protective equipment requirements and cryogenic hazard. Use spark-proof tools and explosion proof equipment. Keep away from heat, sparks and flame. | | |
| Other Precautions: | Liquid methane tanks are equipped with pressure relief devices. Venting vapors may obscure visibility. If venting or leaking methane catches fire, do not extinguish flames. Flammable vapors may spread from leak creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoke, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering areas, especially confined areas, check the atmosphere with an approved explosion meter. Never touch live electrical parts. Avoid materials incompatible with cryogenic use; some metals such as carbon steel may fracture easily at low temperature. To prevent liquid or cold gas from being trapped in piping between valves, equip the piping with pressure relief devices. Use only transfer lines designed for cryogenic liquids. It is recommended to pipe all vents to the exterior of the building. Always stored and used with adequate ventilation. Never work on a pressurized system. If a leak occurs, follow established procedures for isolation and blow down before attempting any repair. Never place a compressed gas cylinder where it may become part of an electrical circuit. | | |
| 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | | | |

| CAS # 74-82-8 7727-37-9 | Partial Chemical N Methane Nitrogen | lame OSHA TWA No data No data | ACGIH TWA TLV: Simple asphyxiant ppm TLV: Simple asphyxiant ppm | Other Limits No data No data |
|-------------------------------|---|--|--|--|
| Respiratory I (Specify Typ | Equipment e): | A NIOSH approved, see operated in a pressure of in situations of oxyger unknown exposure cond life or health (IDLH). A r 1910.134 and ANSI Z8 conditions warrant a res | elf-contained breathing apparatus of demand, or other positive pressure of deficiency (oxygen content less centrations, or situations that are immospiratory protection program that m 8.2 requirements must be followed pirator's use. | (SCBA) or equivalent mode, should be used than 19.5 percent), nediately dangerous to neets OSHA's 29 CFR whenever workplace |
| Eye Protectio | on: | The use of eye protection Z.87.1 is recommended Depending on condition | on (such as splash goggles) that m d when there is potential liquid s of use, a face shield may be neces | eets or exceeds ANSI contact to the eye. ssary. |
| Protective G | loves: | Wear thermal insulating present thermal hazards | g gloves and clothing when workir (hot or cold). | ng with materials that |
| Other Protec | tive Clothing: | Wear thermal insulating present thermal hazards protection measures sh the risks involved and | g gloves and clothing when workir (hot or cold). Appropriate footwear a ould be selected based on the task should be approved by a specialis | ng with materials that and any additional skin being performed and t before handling this |

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|---------------------------|---|---|
| Engineering Controls: | product. Provide adequate ventilation to maintain 19.5% oxyg | en, less than 1% methane |
| | (20% of LEL). Use a combustible gas indicator since LNG is odorless. If y practices are not adequate to maintain airborne concentrations below limits, additional engineering controls may be required. The engineering | |
| | also need to keep gas, vapor or dust concentrations limits. | below any lower explosive |
| Work/Hygienic/Maintenance | Handle in accordance with good industrial hygiene and | l safety practice. Wash hands |
| Practices: | before breaks and at the end of workday. Suggestions exposure control and specific types of protective equip available information. Specific situations may require of | provided in Section 8 for ment are based on readily consultation regarding industrial |

| hygiene, safety or engineering professionals to ensure proper protection. | | | |
|---|---|--|--|
| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | |
| Physical State: Appearance and Odor: pH: Freezing Point: Boiling Point: Flash Pt: Method Used: Evaporation Rate: | [X] Gas [] Liquid [] Solid Colorless & ODOURLESS TO WEAK HYDROCARBON ODOUR NA -182°C -162°C -136°C Unknown NA | | |
| Flammability (solid, gas): | If a source of ignition is present where the vapor exists at 5 - 15% concentration in air, the vapor will burn along the flame front towards the source of fuel. Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. | | |
| Explosive Limits: | LEL: 5% (V) UEL: 15% (V) | | |
| Vapor Pressure (vs. Air or mm Hg) | 600kPa | | |
| Vapor Density (vs. Air = 1): | NA | | |
| Specific Gravity (Water = 1): | NA | | |
| Density: | 0.54 to 0.66 g/cm³ [0°C] | | |
| Solubility in Water: | 0.024 to 0.061 g/l | | |
| Saturated Vapor Concentration: | NA | | |
| Octanol/Water Partition Coefficient: | : ≤2.8 | | |
| Percent Volatile: | 100 % by volume | | |
| Autoignition Pt: | 482°C to 632°C | | |
| Decomposition Temperature: | No data | | |
| Viscosity: | NA | | |
| Molecular Formula: | C4H4 | | |
| Molar mass: | 16.042 g/mol | | |

| Reactivity: | Stable under recommended storage conditions. |
|--|--|
| Stability: | Unstable [] Stable [X] |
| Conditions To Avoid - Instability: | Heat, flames and sparks. Air. Heat will increase pressure in the storage tank. Stable under recommended storage conditions. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Incompatibility Materials to Avoid: | Air. Oxygen, Strong oxidizing agents. halides, chlorinated compounds, fluorine. |
| Hazardous Decomposition or Byproducts: | High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide. |

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Possibility of Hazardous Reactions:

Conditions To Avoid - Hazardous Reactions:

Will occur [X] Will not occur []

Keep away from source of ignition, heat, high temperatures, flames, sparks, welding and static electricity.

| 11. TOXICOLOGICAL INFORMATION | | | |
|--|---|--|--|
| Mutagenicity: | Not classified as a mutagen. | | |
| Reproductive toxicity: | Not classified as a reproductive toxin. | | |
| Irritation or Corrosion: | No Data available | | |
| Symptoms related to Toxicologic | al No Data available | | |
| Characteristics: | | | |
| Chronic Toxicological Effects: | No Data available | | |
| Carcinogenicity: NTP - | No IARC Monographs - No OSHA Regulated - No | | |
| 12. ECOLOGICAL INFORMATION | | | |
| General Ecological Information: Classification: | Petroleum gases will readily evaporate from the surface and would not be expected to have significant adverse effects in the aquatic environment. No classified hazards | | |
| Persistence and Degradability: | The hydrocarbons in this material are expected to be inherently biodegradable. In practice, hydrocarbon gases are not likely to remain in solution long enough for biodegradation to be a significant loss process. | | |
| Bio accumulative Potential: | Does not bioaccumulate. | | |
| Mobility in Soil: | Due to the extreme volatility of petroleum gases, air is the only environmental compartment in which they will be found. Air Released into the atmosphere, constituents are rapidly diluted and undergo photodegradation. | | |
| Other adverse effects: | Not expected. | | |

13. DISPOSAL CONSIDERATIONS

| Waste Disposal Method: | Do not attempt to dispose of residual or unused quantities. Return container to supplier. |
|------------------------|---|
| | Dispose of contents/containers in accordance with local/regional/national/international |
| | regulations. |

14. TRANSPORT INFORMATION

| DOT Proper Shipping name: | Natural Gas, refrigerated, liquid. |
|---------------------------|------------------------------------|
| DOT Hazard Class: | 2.1 FLAMMABLE GAS |
| UN/NA number: | UN1972 |
| Labels: | |



Sea Transport: Transport document description (IMDG): UN-No. (IMDG):

LAND TRANSPORT (US DOT):

UN1972

| Proper Shipping | Name (IMDG): | |
|-----------------|--------------|--|
| | | |

Hazard Class:

METHANE, REFRIGERATED LIQUID

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Label:



Air Transport: Transport document description (IATA): UN-No. (IATA): Proper Shipping Name (IATA): Hazard Class: Label:

UN1972 Methane, refrigerated liquid 2.1



15. REGULATORY INFORMATION EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) CAS# S. 302 (EHS) S. 304 RQ S. 313 (TRI) 74-82-8 Methane No No No 7727-37-9 Nitrogen No No No CAS# Other US EPA or State Lists Hazardous Components (Chemical Name) TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: 74-82-8 Methane No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1202; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: 7727-37-9 Nitrogen No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No International Regulatory Lists CAS# Hazardous Components (Chemical Name) 74-82-8 Methane Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes - 1971; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 9-1726; Korea ECL: Yes - KE-23181; Philippines ICCS: Yes; REACH: Yes - 01-2119474442-39: Full, (P) 7727-37-9 Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Nitrogen Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: No; Korea ECL: Yes - KE-25994; Philippines ICCS: Yes; REACH: Yes - (P)

Regulatory Information: California Proposition 65: This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the requirements of California Proposition 65. EPA Reportable Quantity (CERCLA) (in pounds): EPA's petroleum exclusions apply to this material. (CERCLA 101(14). CERCLA/SARA Section 313 & 40 CFR 372: This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372. CERCLA/SARA Section 311/312 (Title III Hazard Categories): Acute Health: Yes, Chronic Health: No Fire Hazard: Yes, Pressure Hazard: Yes, Reaction Hazard: No International Hazard Classification: Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the regulation.

16.OTHER INFORMATION

safe handling procedures should be provided to handlers and users.

| Revision Date: | 08/22/2024 |
|----------------------------------|--|
| Preparer Name: | Crystal Maira |
| NFPA Ratings: | 0= Minimal Hazard |
| | 1= Slight Hazard |
| | 2= Moderate Hazard |
| | 3= Serious Hazard |
| | 4= Severe Hazard |
| Company Policy or Disclaimer: | The information, recommendations, and suggestions herein were compiled from reference material and other sources believed to be reliable. However, the SDS's accuracy or completeness is not guaranteed by Gas Innovations or its affiliates, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Since conditions of use are beyond our control, no warranties of merchantability of fitness for a particular purpose are expressed or implied. This SDS is not intended as a license to operate under, or a recommendation to infringe on, any patents. Appropriate warnings and |