

Sweet Natural Gas (Asphyxiant)**Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS**

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WHMIS HAZARD SYMBOLS & DEFINITIONS

Class A: Compressed gas

Class B: Combustible & flammable material

Section 2: HEALTH HAZARD DATA**ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:**

Primary Route of Entry: Inhalation. Liquefied gas may cause frostbite to exposed tissue. Otherwise, lower concentrations of methane are probably inert. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects. Greater overexposure may cause dizziness, slurred speech, flushed face, eye, skin and lung irritation, unconsciousness and convulsions and may lead to asphyxiation. High concentrations, usually above 10%, may sensitize the heart and lead to fatal cardiac arrhythmias. The odorant, ethyl mercaptan, can be irritating to the eyes, skin and respiratory tract. At high concentrations, a person can temporarily lose the ability to smell ethyl mercaptan.

Chronic Effects: N/R. **Carcinogens:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. **Medical Conditions Aggravated by Exposure:** N/R.

EMERGENCY & FIRST AID PROCEDURES:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. **SKIN:** Flush area with lukewarm water. Do not use hot water. If frostbite has occurred, call a physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. **INGESTION:** Not considered a potential route of exposure.

Section 3: PREVENTATIVE MEASURES

Respiratory Protection: Persons should never enter areas of high concentrations without proper respiratory protection. Provide NIOSH-approved air-supplied respirator or self-contained breathing equipment for emergency or non routine situations where the level is excessive.

Ventilation: Storage and use areas should be well ventilated. Explosion-proof mechanical ventilation should be used in enclosed areas.

Gloves: Should be used to prevent frostbite when handling as a liquid. **Eye Protection:** Chemical splash goggles and face shield when changing hoses, valves, etc. **Other Protective Measures:** N/R.

Work/Hygienic Practices: Avoid breathing gas. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Handling: Use of non sparking and explosion-proof equipment may be necessary depending on type of operation. Keep away from heat, sparks and flames. **Storage:** Store in a well-ventilated place in accordance with National Fire Protection Association recommendations. Odourant may be added to product when transported, stored or used for domestic or certain industrial purposes. Where applicable, odourant is added according to the U.S. Code of Federal Regulations, Title 49, Section 192.625, "Odorization of Gas", and may fade over prolonged storage.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

N/A=Not Applicable. N/E=Not Evaluated/Established. N/R=Not Reported by Manufacturer.

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Section 4: HAZARDOUS COMPONENTS & EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
Hydrocarbons, Gaseous Alkanes	74-82-8	N/E	Simple Asphyxiant	N/E	>99

§ indicates a toxic chemical subject to the reporting requirements of SARA Title III, Section 313.

† indicates a chemical known to the State of California to cause cancer, birth defects or other reproductive harm per Proposition 65.

Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	-157 to -107°C	Specific Gravity:	N/R
Vapor Pressure:	No data available	Percent Volatile:	100
Vapor Density (Air=1):	0.6	Evaporation Rate:	N/R
Solubility in Water:	Very slight	pH:	N/R
Appearance/Odor:	Colourless gas/Odourless.		

Section 6: FIRE & EXPLOSION HAZARD DATA

Flash Point (Method):	HIGHLY FLAMMABLE GAS	Flammable Limits. LEL: 5%	UEL: 14%
Extinguishing Media:	If gas has ignited, do not extinguish. Stop gas flow. Allow to burn out.		

Special Firefighting Procedures: Stop flow of gas. Use water to keep fire-exposed containers cool and to protect personnel effecting the shutoff. If a leak or spill has not ignited, use water spray to disperse the gas or vapours and to protect personnel attempting to stop a leak.

Unusual Fire and Explosion Hazards: Do not enter a vapour cloud due to potential for flash fire. Products of combustion may contain CO, CO₂ and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection. Vapour forms explosive mixture with air. Vapours or gases may travel considerable distances to ignition source and flash back.

Section 7: REACTIVITY DATA

Stability: Stable. **Hazardous Polymerisation:** Will not occur. **Conditions to Avoid:** Avoid heat, sparks, and flame. **Incompatibility:** Incompatible or can react with oxidisers. **Hazardous Decomposition Products:** CO, CO₂.

Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

Spill/Leak Procedures:	NOTE: Review sections 3 & 6 before proceeding with cleanup. Use appropriate PPE during cleanup. Evacuate personnel. Thoroughly ventilate area. Use SCBA. Keep upwind of leak. Evacuate until gas has dispersed. Remove sources of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is to be used for spill clean up, it must be explosion-proof and suitable for flammable liquid and vapours.
Waste Disposal:	Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Allow to evaporate or disperse leaks in air, making sure gas/vapour is dissipated below lower explosive limit.
Additional Information:	N/R

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