Section 1. Identification

Product identifier

Product Identity Natural Gas (Sweet) b-72-A/94-B-8

Other means of identification Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

Refinery feedstock.

Details of the supplier of the safety data sheet

Company Name

Pacific Canbriam Energy Limited
2100, 215 2nd Street SW
Calgary, AB Canada
T2P 1M4

Emergency

24 hour Emergency Telephone No. 1-877-269-2877
Canutec: (613) 996-6666 or Cellular *666

Customer Service: 403-269-2874

Section 2. Hazard(s) identification

Classification of the substance or mixture under US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17) (GHS revision 7)

Flammable Gas, category 1;H220	Extremely flammable gas.
Gas under pressure;H280	Contains gas under pressure; may explode if heated.
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.

Label elements

Danger

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

[Prevention]

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
P260 Do not breathe dust, fume, mist, vapors or spray.
P262 Do not get in eyes, on skin, or on clothing.

[Response]

P301+310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or physician.

P331 Do NOT induce vomiting.

P377 Leaking gas fire - do not extinguish unless leak can be stopped safely.

P381 In case of leakage, eliminate all ignition sources.

[Storage]

P403 Store in a well ventilated place.

P410+403 Protect from sunlight. Store in a well ventilated place.

[Disposal]

No GHS disposal statements

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

May displace oxygen and cause rapid suffocation.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the Organisation for Economic Co-operation and Development (OECD) list of Per- and Polyfluoroalkyl Substances (PFASs).

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17) (GHS revision 7)

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Natural gas condensates (petroleum) **CAS Number: 64741-47-5** **Synonyms: No available information**	**80 - 100**	**Aspiration hazard, category 1;H304**	**No data available**
Methane **CAS Number: 74-82-8** **Synonyms: No available information**	**65 - 85**	**Flammable Gas, category 1;H220** **Gas under pressure;H280**	**No data available**
Ethane **CAS Number: 74-84-0** **Synonyms: No available information**	**7 - 13**	**Flammable Gas, category 1;H220** **Gas under pressure;H280**	**No data available**
Propane **CAS Number: 74-98-6** **Synonyms: No available information**	**3 - 7**	**Flammable Gas, category 1;H220** **Liquified Gas;H280** **Simple Asphyxiant**	**No data available**
Hydrogen sulfide **CAS Number: 7783-06-4** **Synonyms: Dihydrogen monosulfide, Dihydrogen sulfide**	**< 0.0001**	**Flammable Gas, category 1;H220** **Gas under pressure;H280** **Acute toxicity(inhalation), category 2:H330** **Aquatic toxicity (acute), category 1;H400**	**No data available**

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview

No chronic toxicity or long term toxicity information available. Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Section 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media: Small Fire: Dry chemical or CO_2. Large Fire: Water spray or fog. Move containers from fire area if you can do it without risk.
Unsuitable Extinguishing Media: Not available.

Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon.

Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

Do not breathe dust, fume, mist, vapors or spray.

Do not get in eyes, on skin, or on clothing.

Advice for fire-fighters

Extremely flammable gas. Contains gas under pressure; may explode if heated. Will be ignited by heat, sparks or flames. Vapors from liquefied gas are initially heavier than air and spread along ground. CAUTION: Methane is lighter than air and will rise. Vapors may travel to source of ignition. Cylinders exposed to fire may vent and release flammable gas. Containers may explode when heated. Ruptured cylinders may rocket. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.
If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters in all directions; also, consider initial evacuation. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For big fire, use unmanned hose holders or monitor nozzles; if impossible, withdraw from area, let fire burn.
Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources. Vapors may cause dizziness or asphyxiation w/o warning. May irritate if inhaled at high concentrations. Contact w/ gas or liquefied

gas may cause burns, severe injury and/or frostbite. Fire may produce toxic gases. Wear positive pressure SCBA. Structural firefighters' protective clothing will provide limited protection. Always wear thermal protective clothing.

ERG Guide No. 115

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Do not allow spills to enter drains or waterways.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Do not direct water at spill or source of leak.
Prevent spreading of vapors through sewers, ventilation systems and confined areas. Isolate area until gas has dispersed. CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid breathing gas. Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Pressurized container: Do not pierce or burn, even after use. See Section 8 for information on Personal Protective Equipment.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Protect from sunlight. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Incompatible materials: Oxidizers.

See section 2 for further details. - [Storage]

Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
74-82-8	Methane	ACGIH	(D) Simple Asphyxiant - (EX) Explosion hazard
		OSHA	No Established Limit
		NIOSH	No Established Limit
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	See Appendix F: Minimal Oxygen Content, explosion hazard
		New Brunswick	No Established Limit
		Newfoundland and Labrador	See Appendix F: Minimal Oxygen Content, explosion hazard
		Nova Scotia	See Appendix F: Minimal Oxygen Content, explosion hazard
		Northwest Territories	1000 ppm TWA 1250 ppm STEL
		Nunavut	1000 ppm TWA 1250 ppm STEL
		Ontario	see Appendix F: Minimal Oxygen Content
		Prince Edward Island	See Appendix F: Minimal Oxygen Content, explosion hazard
		Quebec	No Established Limit
		Saskatchewan	1000 ppm TWA 1250 ppm STEL
		Yukon	No Established Limit
74-84-0	Ethane	ACGIH	(D) Simple Asphyxiant - (EX) Explosion hazard
		OSHA	No Established Limit
		NIOSH	No Established Limit
		Alberta	1000 ppm TWA
		British Columbia	No Established Limit
		Manitoba	See Appendix F: Minimal Oxygen Content, explosion hazard
		New Brunswick	No Established Limit
		Newfoundland and Labrador	See Appendix F: Minimal Oxygen Content, explosion hazard
		Nova Scotia	See Appendix F: Minimal Oxygen Content, explosion hazard
		Northwest Territories	1000 ppm TWA 1250 ppm STEL
		Nunavut	1000 ppm TWA 1250 ppm STEL
		Ontario	see Appendix F: Minimal Oxygen Content
		Prince Edward Island	See Appendix F: Minimal Oxygen Content, explosion hazard
		Quebec	No Established Limit

		Saskatchewan	1000 ppm TWA 1250 ppm STEL
		Yukon	No Established Limit
74-98-6	Propane	ACGIH	(D) Simple Asphyxiant - (EX) Explosion hazard
		OSHA	1000 ppm, 1800 mg/m^3
		NIOSH	TWA 1000 ppm (1800 mg/m^3)
		Alberta	1000 ppm TWA
		British Columbia	No Established Limit
		Manitoba	See Appendix F: Minimal Oxygen Content, explosion hazard
		New Brunswick	No Established Limit
		Newfoundland and Labrador	See Appendix F: Minimal Oxygen Content, explosion hazard
		Nova Scotia	See Appendix F: Minimal Oxygen Content, explosion hazard
		Northwest Territories	1000 ppm TWA 1250 ppm STEL
		Nunavut	1000 ppm TWA 1250 ppm STEL
		Ontario	see Appendix F: Minimal Oxygen Content
		Prince Edward Island	See Appendix F: Minimal Oxygen Content, explosion hazard
		Quebec	1000 ppm TWAEV; 1800 mg/m^3 TWAEV
		Saskatchewan	1000 ppm TWA 1250 ppm STEL
		Yukon	No Established Limit
7783-06-4	Hydrogen sulfide	ACGIH	1 ppm 5 ppm
		OSHA	C 20 ppm, Max above C: 50 ppm 10 mins once
		NIOSH	C 10 ppm (15 mg/m^3) [10-minute]
		Alberta	10 ppm TWA; 14 mg/m^3 TWA
		British Columbia	No Established Limit
		Manitoba	1 ppm TWA 5 ppm STEL
		New Brunswick	10 ppm TWA; 14 mg/m^3 TWA 15 ppm STEL; 21 mg/m^3 STEL
		Newfoundland and Labrador	1 ppm TWA 5 ppm STEL
		Nova Scotia	1 ppm TWA 5 ppm STEL
		Northwest Territories	10 ppm TWA 15 ppm STEL
		Nunavut	10 ppm TWA 15 ppm STEL
		Ontario	10 ppm TWA 15 ppm STEL
		Prince Edward Island	1 ppm TWA 5 ppm STEL
		Quebec	10 ppm TWAEV; 14 mg/m^3 TWAEV 15 ppm STEV; 21 mg/m^3 STEV
		Saskatchewan	10 ppm TWA 15 ppm STEL
		Yukon	10 ppm TWA; 15 mg/m^3 TWA 15 ppm STEL; 27 mg/m^3 STEL
64741-47-5	Natural gas condensates (petroleum)	ACGIH	No Established Limit
		OSHA	No Established Limit
		NIOSH	No Established Limit
		Alberta	No Established Limit

		British Columbia	No Established Limit
		Manitoba	No Established Limit
		New Brunswick	No Established Limit
		Newfoundland and Labrador	No Established Limit
		Nova Scotia	No Established Limit
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	No Established Limit
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit

Exposure controls

Respiratory If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4, with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Eyes Wear safety glasses. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Skin Wear protective clothing. Wear protective gloves. Wear cold insulating gloves. Consult manufacturer specifications for further information.

Engineering Controls Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Gas
Color	Colorless
Odor	Odorized as "Natural Gas".
Melting point / freezing point	-183 °C (-297.4 °F) (Methane)
Initial boiling point and boiling range	-161 °C (-257.8 °F) (Methane)
Flammability (solid, gas)	Gas
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** 2.1 % (Propane)

	Upper Explosive Limit: 15 % (Methane) 16.4 % (Natural Gas)
Flash Point	< -187 °C (-304.6 °F)
Auto-ignition temperature	450 °C (842 °F) (Propane)
Decomposition temperature	Not Available
pH	Not Available
Viscosity (cSt)	Not Available
Solubility in Water	Slightly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	Not Available
Vapor pressure (Pa)	100.17 (kPa) (calculated)
Relative Density	Absolute Density 0.814 kg/m^3 , 724.6 (kg/m^3) (calculated) Relative Density 0.663 to 0.664 (calculated)
Vapor Density	Not Available
Evaporation rate (Ether = 1)	Not Available
VOC Content	Not Available
Percent Volatile	100%

Other information

No other relevant information.

Section 10. Stability and reactivity

Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Contact with incompatible materials. Sources of ignition. Exposure to heat.

Incompatible materials

Oxidizers.

Hazardous decomposition products

Oxides of carbon.

Section 11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Natural gas condensates (petroleum) - (64741-47-5)	No data available.	No data available.	No data available.	No data available.	No data available.
Methane - (74-82-8)	No data available.	No data available.	No data available.	No data available.	No data available.
Ethane - (74-84-0)	No data available.	No data available.	No data available.	No data available.	No data available.
Propane - (74-98-6)	No data available.	No data available.	658.00, Rat - Category: NA	No data available.	No data available.
Hydrogen sulfide - (7783-06-4)	No data available.	No data available.	No data available.	No data available.	444.00, Rat - Category: 2

Carcinogen Data

CAS No.	Ingredient	Source	Value
74-82-8	Methane	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
74-84-0	Ethane	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
74-98-6	Propane	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
7783-06-4	Hydrogen sulfide	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
64741-47-5	Natural gas condensates (petroleum)	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No available information

Symptoms and effects, both acute and delayed:
No chronic toxicity or long term toxicity information available. Treat symptomatically.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Natural gas condensates (petroleum) - (64741-47-5)	No data available.	No data available.	No data available.
Methane - (74-82-8)	No data available.	No data available.	No data available.
Ethane - (74-84-0)	No data available.	No data available.	No data available.
Propane - (74-98-6)	49.90, Fish	69.43, Daphnia sp	19.37, Algae
Hydrogen sulfide - (7783-06-4)	No data available.	No data available.	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	TDG (Domestic Surface Transportation)
UN number	UN1971	UN1971
UN proper shipping name	Methane, compressed or Natural gas, compressed (with high methane content)	Methane, compressed or Natural gas, compressed (with high methane content)

Transport hazard class(es)	**Class:** 2.1	**Class:** 2.1 **Sub Class:** Not Applicable
Packing group	Not Applicable	Not Applicable

	IMO / IMDG (Ocean Transportation)	**ICAO/IATA**
UN number	UN1971	UN1971
UN proper shipping name	Methane, compressed or Natural gas, compressed (with high methane content)	Methane, compressed or Natural gas, compressed (with high methane content)
Transport hazard class(es)	**Class:** 2.1 **Sub Class:** Not Applicable	**Class:** 2.1 **Sub Class:** Not Applicable
Packing group	Not Applicable	Not Applicable

Environmental hazards

IMDG Marine Pollutant: No;

Special precautions for user

Not Applicable

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

This product has been classified in accordance with US OSHA's Hazard Communication Standard (1910.1200) revised 2024 and Canadian Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) (GHS revision 7) and the SDS contains all of the information required by those regulations.

Toxic Substance Control Act (TSCA)

Ethane

Hydrogen sulfide

Methane

Natural gas condensates (petroleum) (UVCB)

Propane

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Canadian Domestic Substance List (DSL):

Ethane

Hydrogen sulfide

Methane

Natural gas condensates (petroleum)

Propane

Canadian Non-Domestic Substance List (NDSL):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Revision Date 06/12/2025

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

Disclaimer: The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.
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