

Material Safety Data Sheet (Canada) Compressed Natural Gas Fuel

Section 1 – Material Identification and Use

Material Name: COMPRESSED NATURAL GAS FUEL

Use: Process stream, sales gas WHMIS Classification: Class A; Class B, Div. 1

TDG: UN: 1971 Class: 2.1 Packing Group: N.Av.

Shipping Name: METHANE, COMPRESSED

Manufacturer/Supplier: ENCANA SERVICES COMPANY LTD.

500 Centre Street SE

CALGARY, ALBERTA, T2P 2S5
Emergency Telephone: CANUTEC: 1-613-996-6666
Chemical Family: Light paraffin hydrocarbon gas

Section 2 – Hazardous Ingredients of Materials

Hazardous Approximate C.A.S. LD50/LC50

Ingredients Concentrations % Nos. Specify Species & Route Exposure Limits

Methane >97 74-82-8 N.Av. 1000 ppm (BC)

All exposure levels are 8-hour time-weighted exposure limits unless otherwise indicated. STEL is a short-term exposure limit over a 15 minute time-weighted average.

Section 3 – Physical Data for Material

Physical State: Gas Vapour Pressure: N.Av.

Specific Gravity: 0.422Odour Threshold (ppm): N.Av.Vapour Density (air=1): 0.55Evaporation Rate: N.Av.Percent Volatiles, by volume: 100Boiling Pt. (deg.C): -161.49pH: N.App.Freezing Pt. (deg.C): -182.5

Coefficient of Water/Oil Distribution: <0.1 Odour & Appearance: colorless, odourless or mercaptan odour

(N.AV. = not available N.App. = not applicable)
Section 4 - Fire and Explosion

Flammability: Yes **Conditions**: Product will ignite at normal temperatures.

Means of Extinction: Foam, CO₂, dry chemical. Explosive accumulations can build up in areas of poor ventilation.

Special Procedures: Use water spray to cool fire-exposed containers, and to disperse gas if leak has not

ignited. If safe to do so, cut off fuel and allow flame to burn out.

Flash Point (deg.C): -187.78

Upper Explosive Limit (% by vol.): 15 **Sensitivity to Impact**: No

Lower Explosive Limit (% by vol.): 5 Sensitivity to Static Discharge: Yes, may ignite

Auto-Ignition Temp. (deg.C): 539.85 TDG Flammability Classification: 2.1

Hazardous Combustion Products: Carbon monoxide and carbon dioxide

Section 5 – Reactivity Data

Chemical Stability: Yes Conditions: N.App.

Incompatibility: Yes **Substances:** Chlorine and other strong oxidizing agents

Reactivity: Yes Conditions: Heat, strong sunlight

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide



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Section 6 - Toxicological Properties of Product

Routes of Entry:

Skin Absorption:NoSkin Contact:YesEye Contact:YesInhalation:Acute:YesChronic:N.Av.Ingestion:No

Effects of Acute Exposure: Inhalation can cause headache, disorientation, dizziness, drowsiness and possibly

unconsciousness at concentrations that cause oxygen deficiency and asphyxiation. Rapidly expanding gas or vaporized liquid

may cause frostbite to skin and eyes. **Effects of Chronic Exposure**: N.Av. **Sensitization to Product**: No.

Irritancy: N.Av.

Synergistic Materials: None reported

Carcinogenicity: N.Av. Reproductive Effects: N.Av. Teratogenicity: N.Av. Mutagenicity: N.Av.

Section 7 - Preventative Measures

Personal Protective Equipment: Use a NIOSH-approved positive pressure self-contained breathing apparatus or supplied

air breathing apparatus when entering areas where overexposure may occur. Use approved gas detectors.

Gloves: Insulated gloves
Respiratory: SCBA or SABA
Eye: Full facepiece SCBA or SABA

Footwear: As per safety policy Clothing Fire retardant garments that meet NFPA 2112.

Engineering Controls: Use only in well ventilated areas. Mechanical ventilation recommended in confined areas.

Equipment must be explosion proof.

Leaks & Spills: If safe to do so, stop gas flow. Remove all ignition sources. Provide clearing ventilation if possible. Prevent from entering confined spaces. Use appropriate personal protective equipment. Contact applicable regulatory authorities.

Waste Disposal: Controlled burning or venting in accordance with regulatory requirements.

Handling Procedures & Equipment: Avoid inhalation. Bond and ground all transfers. Avoid sparking conditions. **Storage Requirements:** Store in a cool, dry, well ventilated area away from heat, strong sunlight and ignition sources.

Special Shipping Information: N.Av.

Section 8 – First aid Measures

Skin: If freeze burn occurs, gently bathe affected area in warm water (38 – 43 deg. C.) Do not rub. Get medical

attention.

Eye: Immediately flush with large amounts of luke warm water for 15 minutes, lifting upper and lower lids at

intervals. Seek medical attention if irritation persists.

Inhalation: Ensuring own safety, remove victim to fresh air. Give oxygen, artificial respiration, or CPR if needed.

Seek immediate medical attention.

Ingestion: N.App.

Section 9 – Preparation Date of MSDS

Prepared By: Encana Environment, Health and Safety (EH&S)

Phone Number: (403) 645-2000 Preparation Date: July 1, 2014 Revision Date: July 1, 2017