

SECTION 1 – MATERIAL IDENTIFICATION AND USE**Material Name:** NATURAL GAS, COMPRESSED**Use:** Vehicle Fuel Gas**WHMIS Classification:** Class A; Class B, Div. 1**Fire:** 4 **Reactivity:** 0 **Health:** 1 **Inventory No.:****TDG:** **UN:** 1971 **Class:** 2.1**Packing Group:** N. App.**Shipping Name:** NATURAL GAS, COMPRESSED**Manufacturer/Supplier:** ENCANA CORPORATION#1800, 855 - 2nd Street S.W., P.O. BOX 2850

CALGARY, ALBERTA, T2P 2S5

Emergency Telephone: 403-645-3333**Chemical Family:** Light paraffin hydrocarbon gas**SECTION 2 – HAZARDOUS INGREDIENTS OF MATERIAL**

Hazardous Ingredients	Approximate Concentrations %	C.A.S. Nos.	LD50/LC50 Specify Species & Route	Exposure Limits
Methane	>97%	74-82-8	N.Av.	1000 ppm (TLV ¹) (see also section 6)

TLV = Threshold Limit Value (8 hrs)

¹ As Aliphatic hydrocarbon gases**SECTION 3 – PHYSICAL DATA FOR MATERIAL****Physical State:** Gas**Specific Gravity:** 0.422**Vapour Density (air=1):** 0.55**Percent Volatiles, by volume:** 100**Odour & Appearance:** colourless, odourless or mercaptan odour**Freezing Pt. (deg.C):** -182.5**pH:** N.App.**Vapour Pressure (mmHg):** N.App.**Odour Threshold (ppm):** N.Av.**Evaporation Rate:** N.Av.**Boiling Pt. (deg.C):** -161.49**Coefficient of Water/Oil Distribution:** <0.1

(N.AV. = not available N.App. = not applicable)

SECTION 4 – FIRE AND EXPLOSION**Flammability:** Yes **Conditions:** Material 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**Lower Explosive Limit (% by vol.):** 5**Auto Ignition Temp. (deg.C):** 539.85**Hazardous Combustion Products:** Carbon monoxide**Sensitivity to Impact:** No**Sensitivity to Static Discharge:** Yes, may ignite**TDG Flammability Classification:** 2.1**SECTION 5 – REACTIVITY DATA****Chemical Stability:** Yes**Incompatibility:** Yes**Reactivity:** Yes**Hazardous Decomposition Products:** Carbon dioxide, carbon monoxide**Conditions:** N.App.**Substances:** Chlorine and other strong oxidizing agents.**Conditions:** Heat, strong sunlight

SECTION 6 – TOXICOLOGICAL PROPERTIES OF PRODUCT

Routes of Entry:**Skin Absorption:** N.Av.**Skin Contact:** Yes (liquid)**Eye Contact:** Yes**Inhalation: Acute:** Yes**Chronic:** N.Av.**Ingestion:** No

Effects of Acute Exposure: Drowsiness, headache, dizziness and possibly unconsciousness at concentrations below those required for oxygen deficiency, for example 10% LEL and above. At higher concentrations can cause oxygen deficiency and possible asphyxiation. Rapidly expanding gas or vaporized liquid may cause frostbite to skin and eyes.

Effects of Chronic Exposure: N.Av.**Sensitization to Product:** No**Exposure Limits of Product:** 1000 ppm (TLV)**Irritancy:** N.Av.**Synergistic Materials:** None reported**Carcinogenicity:** N.Av.**Reproductive Effects:** N.Av.**Teratogenicity:** N.Av.**Mutagenicity:** N.Av.

SECTION 7 – PREVENTIVE MEASURES

Personal Protective Equipment: Gloves: Leather gloves **Eye:** Safety glasses**Footwear:** As per safety policy. **Clothing:** Fire retardant coveralls**Respiratory Protection:** Use positive pressure self-contained breathing apparatus or supplied air breathing apparatus when entering areas where high concentrations may be present.**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.**Waste Disposal:** Controlled burning or venting in accordance with regulatory requirements.**Handling Procedures & Equipment:** Avoid contact with liquid or liquid cooled 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:** Remove to fresh air. Give oxygen, artificial respiration, or CPR if needed. Seek medical attention.**Ingestion:** N.App.

SECTION 9 – PREPARATION DATE OF MSDS

Prepared By: EnCana Environment, Health and Safety (EHS)

Phone Number: (403) 645-2000

Preparation Date: July 1, 2011

Expiry Date: July 1, 2014