SECTION 1 – MATERIAL IDENTIFICATION AND USE

Material Name: NATURAL GAS (SWEET)
Use: Process stream, sales gas
WHMIS Classification: Class A; Class B, Div. 1
Fire: 4 Reactivity: 0 Health: 1 Inventory No.:
Shipping Name: NATURAL GAS, COMPRESSED (with high methane content)
Manufacturer/Supplier: CENOVUS ENERGY INC.
500 Centre Street SE, PO Box 766
Calgary, AB T2P 0M5
Emergency Telephone: 1-877-458-8080, CANUTEC 1-613-996-6666 (Canada)

Chemical Family: Mixture of light paraffin hydrocarbon gases

SECTION 2 – HAZARDOUS INGREDIENTS OF MATERIAL

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Approximate Concentrations %</th>
<th>C.A.S. Nos.</th>
<th>LDS5/LC50 Specify Species &amp; Route</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanes</td>
<td>0 – 10</td>
<td>106-97-8</td>
<td>LC50, rat, 4 hr., 658 g/m3</td>
<td>1000 ppm (OEL, TLV&lt;sup&gt;1&lt;/sup&gt;)</td>
</tr>
<tr>
<td>Ethane</td>
<td>0 – 15</td>
<td>74-84-0</td>
<td>N.Av.</td>
<td>1000 ppm (OEL, TLV&lt;sup&gt;1&lt;/sup&gt;)</td>
</tr>
<tr>
<td>Methane</td>
<td>70 - 90</td>
<td>74-82-8</td>
<td>N.Av.</td>
<td>1000 ppm (TLV&lt;sup&gt;1&lt;/sup&gt;)</td>
</tr>
<tr>
<td>Propane</td>
<td>0 – 10</td>
<td>74-98-6</td>
<td>N.Av.</td>
<td>1000 ppm (OEL, TLV&lt;sup&gt;1&lt;/sup&gt;)</td>
</tr>
</tbody>
</table>

OEL = 8 hr. Alberta Occupational Exposure Limit  TLV = Threshold Limit Value (8 hrs)
<sup>1</sup> As Aliphatic hydrocarbon gases

SECTION 3 – PHYSICAL DATA FOR MATERIAL

Physical State: Gas  Vapour Pressure (mmHg): Gas (usually 300 – 600 psi in pipeline)
Specific Gravity: 0.3 – 0.5  Odour Threshold (ppm): N.Av.
Vapour Density (air=1): 0.5 – 0.94  Evaporation Rate: N.Av.
Percent Volatiles, by volume: 100  Boiling Pt. (deg.C): -150
Odour & Appearance: colourless, odourless or mercaptan odour
Freezing Pt. (deg.C): -180  Coefficient of Water/Oil Distribution: <0.1
pH: N.App. (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) & Method: <-150 deg.C.  Hazardous Combustion Products: Carbon monoxide
Upper Explosive Limit (% by vol.): 15  Sensitivity to Impact: No
Lower Explosive Limit (% by vol.): 3  Sensitivity to Static Discharge: Yes, may ignite

SECTION 5 – REACTIVITY DATA

Incompatibility: Yes  Substances: Chlorine and other strong oxidizing agents.
Reactivity: Yes  Conditions: Heat, strong sunlight
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide
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 causes oxygen deficiency and possible asphyxiation.

Effectively 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 (OEL, TLV)
Irritancy: N.Av.
Synergistic Materials: None reported

SECTION 7 – PREVENTIVE MEASURES

Personal Protective Equipment: Use positive pressure self-contained breathing apparatus or supplied air breathing apparatus when entering areas where high concentrations may be present.
Gloves: Insulated gloves Respiratory: SCBA or SABA Eye: Full facepiece SCBA or SABA
Footwear: As per safety policy. Clothing: As per fire protection policy.
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: Cenovus Energy Inc. Health and Safety
Phone Number: 1-403-766-2000
Preparation Date: November 6, 2012