

**GIBSON ENERGY ULC**  
**MATERIAL SAFETY DATA SHEET**  
**NATURAL GAS CONDENSATE (SWEET)**



**1. PRODUCT INFORMATION**

**NAME:** NATURAL GAS CONDENSATE (SWEET)

**SYNONYMS:** Casing head gasoline, Natural Gas, Condensate

**APPLICATIONS AND USE:** Refinery/Chemical feedstock or diluent to reduce the viscosity of heavier crude oils.

**PRODUCT DESCRIPTION:** A complex combination of hydrocarbons separated from natural gas (usually at the wellhead) and containing normal atmospheric conditions.

**REGULATORY CLASSIFICATION:**

**WHMIS:** Class B, Division 2: Flammable Liquid  
Class D, Division 2, Subdivision A: Very Toxic Material

**TRANSPORTATION OF DANGEROUS GOODS INFORMATION:  
(CANADA)**

Shipping Name: Petroleum Distillates  
Primary TDG: Class 3 Flammable Liquid  
Secondary TDG: None  
P.I.N.: UN1268  
Packing Group: I or II  
Guide Number: 128

**EMERGENCY TELEPHONE NUMBERS:**

Name of MFG/SUPPLIER:

**Gibson Energy ULC**  
**1700, 440 – 2<sup>nd</sup> Ave. SW**  
**Calgary, Alberta T2P 5E9**

**(403) 206-4000**  
**Canutec (613) 993-6666 or Cellular \*666**

**2. HAZARDOUS INGREDIENTS**

<u>Component</u>	<u>%</u>	<u>CAS #</u>
Hydrocarbons (aromatic and paraffinic hydrocarbons)	100	8002-05-9
Benzene	10 ppm	71-43-2

**3. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid  
**DENSITY:** 0.6 to 0.75 g/cc  
**RELATIVE DENSITY:** N/A  
**VAPOUR DENSITY:** 2.5 (air=1) @ 30° C  
**BOILING POINT RANGE:** -30° C to 300° C  
**SOLUBILITY IN WATER:** Insoluble  
**VAPOUR PRESSURE:** 35 to 75 kPa(a) (moderate)  
**APPEARANCE/ODOUR:** A clear liquid (colourless to straw colour)  
Odour varies from mild pleasant hydrocarbon odour to pungent "rotten egg" odour.

**ODOUR THRESHOLD:** Not available  
**EVAPORATION RATE:** N/A  
**FREEZING/MELTING PT.:** <-54° c (pour point)  
**VISCOSITY:** <1 centistokes @ 0° C  
**pH:** Not available  
**CO-EFFICIENT OF WATER**  
**OIL DISTRIBUTION:** Not available  
**PERCENT VOLATILE:** 100%  
**MOLECULAR FORMULA:** Not applicable - mixture  
**MOLECULAR WEIGHT:** Not applicable - mixture

**4. HEALTH HAZARD INFORMATION**

**NATURE OF HAZARD**

**INHALATION:** High vapour concentrations are irritating to the eyes, nose, throat and lungs, may cause headaches and dizziness, may be anesthetic and cause other central nervous system effects.

Causes suffocation (asphyxiant) if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

Avoid breathing vapours or mists.

Hydrogen sulphide gas may be released. Hydrogen sulphide may cause irritation, breathing failure, coma and death, without necessarily any warning being sensed.

**EYE CONTACT:** Irritating but will not injure eye tissue.

**SKIN CONTACT:** Low toxicity.

Frequent or prolonged contact may irritate the skin and cause a rash (dermatitis).

**INGESTION:** Minimal toxicity.

Small amounts of this liquid drawn into the lungs from swallowing or vomiting may cause severe health effects (e.g. bronchopneumonia or pulmonary edema).

**CHRONIC EFFECTS:**

Contains n-hexane, prolonged and/or repeated exposures may cause damage to the peripheral nervous system (e.g. fingers, feet, arms, etc.).

Contains benzene. Human health studies (epidemiology) indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood producing system and serious blood disorder, including leukemia.

**TOXICITY DATA:** Not available.

**OCCUPATIONAL EXPOSURE LIMITS (OELs) RECOMMENDED:**

Medical Division Recommends:

For Benzene: 1) 5 ppm, TWA for 8 hrs/day  
2) 3 ppm TWA for 12 hrs/day

For total organic vapour, 100 ppm recommended based on naphtha.

ACGHI Recommends:  
For n-Hexane: 1) 50 ppm (180 mg/m<sup>3</sup>)

**5. FIRST AID MEASURES**

**INHALATION:** In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

**EYE CONTACT:** Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

**SKIN CONTACT:** Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse.

**INGESTION:** If swallowed, DO NOT induce vomiting. If vomiting begins, lower victim's head in an effort to prevent vomitus from entering lungs. Keep at rest. Get prompt medical attention.

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**5. FIRST AID MEASURES (Cont.)**

**EMERGENCY PROCEDURES:** Because hydrogen sulphide inhalation can be fatal, rescuers must wear positive pressure full facepiece, self-contained or supplied-air NIOSH approved respirators before attempting the rescue.

**6. PREVENTATIVE AND CORRECTIVE MEASURES**

**SPECIAL PROTECTION INFORMATION:**

The selection of personal protective equipment varies, depending upon conditions of use.

Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields. Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

**ENGINEERING CONTROLS:**

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation in confined spaces. Use explosion-proof equipment.

**HANDLING, STORAGE AND SHIPPING:**

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning. Do not handle or store near an open flame, source of heat or source of ignition.

Material will accumulate static charges which may cause a spark. Static charge build up could become an ignition source. Use proper grounding procedure.

Store and load at normal (up to 38° C) temperature and at atmospheric pressure.

**LAND SPILL:**

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard.

Vapours or mists may be harmful or fatal. Warn occupants in downwind areas. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion-proof motor or hand pump) or by using a suitable absorbent.

**SPILL CONTROL AND DISPOSAL:**

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authority immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

**WATER SPILL:**

Prevent additional discharge of material, if possible to do so without hazard. Attempt to contain floating material. Eliminate all sources of ignition. Vapours of dust may be harmful or fatal. Warn occupants and shipping in downwind areas. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

**7. FIRE AND EXPLOSION HAZARD**

Flash-point (Test Method): <-40° C (PMCC)  
Auto-ignition: Not available  
Flammable Limits (% vol.): Not available

**GENERAL HAZARDS:**

Extremely flammable; material will readily ignite at normal temperatures. Toxic gases will form upon combustion.

**FIREFIGHTING:**

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire if possible to do so without hazard. If a leak or spill has not ignited, use water spray to disperse the vapours. Either allow fire to burn out under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Respiratory and eye protection required for fire fighting personnel.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

**HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of Carbon, Sulphur

**8. REACTIVITY DATA**

This product is stable. Hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Heat, ignition sources, oxidizing material.

**9. NOTES**

**10. PREPARATION INFORMATION**

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