

# Natural Gas Condensate, Unstabilized

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

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### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Natural Gas Condensate, Unstabilized

#### 1.2. Intended Use of the Product

**Use Of The Substance/Mixture:** Industrial use.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Williams Inc.

One Williams Center

Tulsa, OK 74172

855-945-5762

[www.williams.com](http://www.williams.com)

[ehs@williams.com](mailto:ehs@williams.com)

#### 1.4. Emergency Telephone Number

CHEMTREC:

1-800-424-9300 (US/Canada)

+01 703-527-3887 (International)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Flammable liquids Category 1	H224
Skin corrosion/irritation Category 2	H315
Reproductive toxicity Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity (repeated exposure) Category 2	H373
Aspiration hazard Category 1	H304
Hazardous to the aquatic environment – Acute Hazard Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard Category 2	H411

#### 2.2. Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H224 - Extremely flammable liquid and vapor.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).  
H401 - Toxic to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, ventilating, and lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe mist, vapor or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P312 - Call a POISON CENTER or doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see section 4 on this SDS).  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Hexane, branched and linear	Hexanes / Hexane isomers / Hexane (all isomers) / Hexane / Hexane structural isomers / Hexane isomers (n-hexane and hexane isomers only) / Branched and linear hexane	(CAS-No.) 92112-69-1	54 – 58	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
n-Butane	Butane	(CAS-No.) 106-97-8	11 – 12	Flam. Gas 1, H220 Press. Gas (Liq.), H280 mple Asphyxiant
Propane	Normal propane / n-Propane / R290	(CAS-No.) 74-98-6	9.5 – 12	Flam. Gas 1, H220 Press. Gas (Liq.), H280 mple Asphyxiant
n-Pentane	Pentane / Normal pentane / Pentane, n- / Pentane isopentane	(CAS-No.) 109-66-0	6 – 9	Flam. Liq. 1, H224 STOT SE 3, H336

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				Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Isopentane	Butane, 2-methyl- / 2-Methylbutane / Methylbutane / isopentane	(CAS-No.) 78-78-4	5.4 – 6	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Ethane	Ethyl hydride	(CAS-No.) 74-84-0	4.1 – 5	Flam. Gas 1, H220 Press. Gas (Liq.), H280 mple Asphyxiant
Isobutane	2-Methylpropane / Propane, 2-methyl- / R600a	(CAS-No.) 75-28-5	3 – 5	Flam. Gas 1, H220 Press. Gas (Liq.), H280 mple Asphyxiant
Methane	Methane, compressed / Monomethylamine / Methyl hydride / Marsh gas	(CAS-No.) 74-82-8	0.9 – 1	Flam. Gas 1, H220 Press. Gas (Comp.), H280 mple Asphyxiant
Carbon dioxide	Carbonic anhydride	(CAS-No.) 124-38-9	0.01 – 0.3	Press. Gas (Comp.), H280 mple Asphyxiant
Nitrogen	Nitrogen gas / Nitrogen, liquefied / Nitrogen, compressed	(CAS-No.) 7727-37-9	0.08 – 0.17	Press. Gas (Comp.), H280 Simple Asphyxiant

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately remove contaminated clothing. Wash with plenty of soap and water. If exposed or concerned: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water and soap for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Place affected person on their side. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause drowsiness and dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation). Causes skin irritation. May be fatal if swallowed and enters airways.

**Inhalation:** High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** May cause slight irritation to eyes.

**Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

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**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Extremely flammable liquid and vapor. Will float and can be reignited on water surface.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** May react with strong oxidizers, increasing risk of fire or explosion. Attacks some forms of plastics, rubber, and coatings.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Nitrogen oxides.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Eliminate ignition sources first, then ventilate the area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist, or spray. Take precautionary measures against static discharge. Use only non-sparking tools.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

**Incompatible Materials:** Acids. Oxidizers. May attack plastic, resins and rubber.

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## 7.3. Specific End Use(s)

Industrial use.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

<b>Nitrogen (7727-37-9)</b>		
<b>USA ACGIH</b>	ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
<b>Methane (74-82-8)</b>		
<b>USA ACGIH</b>	ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
<b>Nunavut</b>	OEL STEL	1250 ppm
<b>Nunavut</b>	OEL TWA	1000 ppm
<b>Northwest Territories</b>	OEL STEL	1250 ppm
<b>Northwest Territories</b>	OEL TWA	1000 ppm
<b>Saskatchewan</b>	OEL STEL	1250 ppm
<b>Saskatchewan</b>	OEL TWA	1000 ppm
<b>Carbon dioxide (124-38-9)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	5000 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL	30000 ppm
<b>USA OSHA</b>	OSHA PEL TWA	9000 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	5000 ppm
<b>USA NIOSH</b>	NIOSH REL TWA	9000 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA	5000 ppm
<b>USA NIOSH</b>	NIOSH REL STEL	54000 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL	30000 ppm
<b>USA IDLH</b>	IDLH	40000 ppm
<b>Alberta</b>	OEL STEL	54000 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL	30000 ppm
<b>Alberta</b>	OEL TWA	9000 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	5000 ppm
<b>British Columbia</b>	OEL STEL	15000 ppm
<b>British Columbia</b>	OEL TWA	5000 ppm
<b>Manitoba</b>	OEL STEL	30000 ppm
<b>Manitoba</b>	OEL TWA	5000 ppm
<b>New Brunswick</b>	OEL STEL	30000 ppm
<b>New Brunswick</b>	OEL TWA	5000 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL	30000 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	5000 ppm
<b>Nova Scotia</b>	OEL STEL	30000 ppm
<b>Nova Scotia</b>	OEL TWA	5000 ppm
<b>Nunavut</b>	OEL STEL	30000 ppm
<b>Nunavut</b>	OEL TWA	5000 ppm
<b>Northwest Territories</b>	OEL STEL	30000 ppm
<b>Northwest Territories</b>	OEL TWA	5000 ppm
<b>Ontario</b>	OEL STEL	30000 ppm
<b>Ontario</b>	OEL TWA	5000 ppm
<b>Prince Edward Island</b>	OEL STEL	30000 ppm
<b>Prince Edward Island</b>	OEL TWA	5000 ppm

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Québec	VECD OEL STEV	54000 mg/m <sup>3</sup>
Québec	VECD OEL STEV	30000 ppm
Québec	VEMP OEL TWAEV	9000 mg/m <sup>3</sup>
Québec	VEMP OEL TWAEV	5000 ppm
Saskatchewan	OEL STEL	30000 ppm
Saskatchewan	OEL TWA	5000 ppm
Yukon	OEL STEL	27000 mg/m <sup>3</sup>
Yukon	OEL STEL	15000 ppm
Yukon	OEL TWA	9000 mg/m <sup>3</sup>
Yukon	OEL TWA	5000 ppm
<b>Ethane (74-84-0)</b>		
USA ACGIH	ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
Alberta	OEL TWA	1000 ppm
Nunavut	OEL STEL	1250 ppm
Nunavut	OEL TWA	1000 ppm
Northwest Territories	OEL STEL	1250 ppm
Northwest Territories	OEL TWA	1000 ppm
Saskatchewan	OEL STEL	1250 ppm
Saskatchewan	OEL TWA	1000 ppm
<b>Isobutane (75-28-5)</b>		
USA ACGIH	ACGIH OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
USA NIOSH	NIOSH REL TWA	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA	800 ppm
British Columbia	OEL STEL	1000 ppm (Butane, all isomers)
Manitoba	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
New Brunswick	OEL STEL	1000 ppm
Newfoundland & Labrador	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
Nova Scotia	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
Nunavut	OEL STEL	1250 ppm (Butane, all isomers)
Nunavut	OEL TWA	1000 ppm (Butane, all isomers)
Northwest Territories	OEL STEL	1250 ppm (Butane, all isomers)
Northwest Territories	OEL TWA	1000 ppm (Butane, all isomers)
Ontario	OEL STEL	1000 ppm (explosion hazard (Butane, all isomers))
Prince Edward Island	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
Saskatchewan	OEL STEL	1250 ppm (Butane, all isomers)
Saskatchewan	OEL TWA	1000 ppm (Butane, all isomers)
<b>n-Butane (106-97-8)</b>		
USA ACGIH	ACGIH OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
USA NIOSH	NIOSH REL TWA	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA	800 ppm
USA IDLH	IDLH	1600 ppm (>10% LEL)
Alberta	OEL TWA	1000 ppm
British Columbia	OEL STEL	1000 ppm (Butane, all isomers)
Manitoba	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
New Brunswick	OEL STEL	1000 ppm
Newfoundland & Labrador	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
Nova Scotia	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
Nunavut	OEL STEL	1250 ppm (Butane, all isomers)
Nunavut	OEL TWA	1000 ppm (Butane, all isomers)
Northwest Territories	OEL STEL	1250 ppm (Butane, all isomers)

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<b>Northwest Territories</b>	OEL TWA	1000 ppm (Butane, all isomers)
<b>Ontario</b>	OEL STEL	1000 ppm (explosion hazard (Butane, all isomers))
<b>Prince Edward Island</b>	OEL STEL	1000 ppm (explosion hazard (Butane, isomers))
<b>Québec</b>	VEMP OEL TWAEV	1900 mg/m <sup>3</sup>
<b>Québec</b>	VEMP OEL TWAEV	800 ppm
<b>Saskatchewan</b>	OEL STEL	1250 ppm (Butane, all isomers)
<b>Saskatchewan</b>	OEL TWA	1000 ppm (Butane, all isomers)
<b>Yukon</b>	OEL STEL	1600 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	750 ppm
<b>Yukon</b>	OEL TWA	1400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA	600 ppm
<b>Isopentane (78-78-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	1000 ppm (Pentane, all isomers)
<b>Alberta</b>	OEL TWA	1770 mg/m <sup>3</sup> (Pentane, all isomers)
<b>Alberta</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>British Columbia</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Manitoba</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>New Brunswick</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Nova Scotia</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Nunavut</b>	OEL STEL	750 ppm (Pentane, all isomers)
<b>Nunavut</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>Northwest Territories</b>	OEL STEL	750 ppm (Pentane, all isomers)
<b>Northwest Territories</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>Ontario</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Prince Edward Island</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Québec</b>	VEMP OEL TWAEV	1000 ppm (Pentane (all isomers))
<b>Saskatchewan</b>	OEL STEL	750 ppm (Pentane, all isomers)
<b>Saskatchewan</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>n-Pentane (109-66-0)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	1000 ppm (Pentane, all isomers)
<b>USA OSHA</b>	OSHA PEL TWA	2950 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	1000 ppm
<b>USA NIOSH</b>	NIOSH REL TWA	350 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA	120 ppm
<b>USA NIOSH</b>	NIOSH REL (Ceiling)	1800 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL C	610 ppm
<b>USA IDLH</b>	IDLH	1500 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	1770 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	600 ppm
<b>British Columbia</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Manitoba</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>New Brunswick</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Nova Scotia</b>	OEL TWA	1000 ppm (Pentane, all isomers)
<b>Nunavut</b>	OEL STEL	750 ppm (Pentane, all isomers)
<b>Nunavut</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>Northwest Territories</b>	OEL STEL	750 ppm (Pentane, all isomers)
<b>Northwest Territories</b>	OEL TWA	600 ppm (Pentane, all isomers)
<b>Ontario</b>	OEL TWA	1000 ppm
<b>Prince Edward Island</b>	OEL TWA	1000 ppm (Pentane, all isomers)

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Québec	VEMP OEL TWAEV	1000 ppm (Pentane (all isomers))
Saskatchewan	OEL STEL	750 ppm
Saskatchewan	OEL TWA	600 ppm
Yukon	OEL STEL	2250 mg/m <sup>3</sup>
Yukon	OEL STEL	750 ppm
Yukon	OEL TWA	1800 mg/m <sup>3</sup>
Yukon	OEL TWA	600 ppm
<b>Propane (74-98-6)</b>		
USA ACGIH	ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content
USA OSHA	OSHA PEL TWA	1800 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA	1000 ppm
USA NIOSH	NIOSH REL TWA	1800 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA	1000 ppm
USA IDLH	IDLH	2100 ppm (10% LEL)
Alberta	OEL TWA	1000 ppm
Nunavut	OEL STEL	1250 ppm
Nunavut	OEL TWA	1000 ppm
Northwest Territories	OEL STEL	1250 ppm
Northwest Territories	OEL TWA	1000 ppm
Québec	VEMP OEL TWAEV	1800 mg/m <sup>3</sup>
Québec	VEMP OEL TWAEV	1000 ppm
Saskatchewan	OEL STEL	1250 ppm
Saskatchewan	OEL TWA	1000 ppm

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available



# Natural Gas Condensate, Unstabilized

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

<b>Boiling Point</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Auto-ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: Not applicable
<b>Lower Flammable Limit</b>	: No data available
<b>Upper Flammable Limit</b>	: No data available
<b>Vapor Pressure</b>	: 100 – 195 mm Hg
<b>Relative Vapor Density at 20°C</b>	: No data available
<b>Relative Density</b>	: No data available
<b>Specific Gravity</b>	: No data available
<b>Solubility</b>	: No data available
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

May react with strong oxidizers, increasing risk of fire or explosion. Attacks some forms of plastics, rubber, and coatings.

### 10.2. Chemical Stability:

Extremely flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### 10.5. Incompatible Materials:

Acids. Oxidizers. May attack plastic, resins and rubber.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects – Product

**Likely routes of exposure:** Dermal. Eye contact. Ingestion. Inhalation.

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** No additional information available

**Skin Corrosion/Irritation:** Causes skin irritation.

**Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** May cause drowsiness or dizziness.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

**Chronic Symptoms:** Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).

### 11.2. Information on Toxicological Effects - Ingredient(s)

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LD50 and LC50 Data: <b>Nitrogen (7727-37-9)</b>	
LC50 Inhalation Rat	800000 ppm
<b>Methane (74-82-8)</b>	
LD50 Dermal Rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	539600 ppm (Exposure time: 2 h Source: ECHA_API)
<b>Carbon dioxide (124-38-9)</b>	
LC50 Inhalation Rat	167857 ppm
<b>Ethane (74-84-0)</b>	
LC50 Inhalation Rat	> 800000 ppm/4h
<b>Isobutane (75-28-5)</b>	
LC50 Inhalation Rat	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)
<b>n-Butane (106-97-8)</b>	
LC50 Inhalation Rat	30957 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>n-Pentane (109-66-0)</b>	
LD50 Oral Rat	> 2000 mg/kg (Source: EU_RAR)
LD50 Dermal Rabbit	3000 mg/kg (Source: OECD_SIDS)
LC50 Inhalation Rat	364 g/m <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP)
LC50 Inhalation Rat	> 20 mg/l/4h
<b>Propane (74-98-6)</b>	
LC50 Inhalation Rat	> 800000 ppm (Exposure time: 15 min Source: ECHA_API)
<b>Hexane, branched and linear (92112-69-1)</b>	
LD50 Oral Rat	15000 mg/kg (Source: IUCLID)

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

<b>Isopentane (78-78-4)</b>	
EC50 Crustacea	2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>n-Pentane (109-66-0)</b>	
LC50 Fish	9.87 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Crustacea	9.74 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish	11.59 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
NOEC Chronic Algae	2 mg/l

### 12.2. Persistence and Degradability

<b>Natural Gas Condensate, Unstabilized</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

<b>Natural Gas Condensate, Unstabilized</b>	
Bioaccumulative Potential	Not established.
<b>Methane (74-82-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.09
<b>Carbon dioxide (124-38-9)</b>	
BCF Fish 1	No bioaccumulation
Partition coefficient n-octanol/water (Log Pow)	0.83
<b>Ethane (74-84-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 at 20 °C (at pH 7)
<b>Isobutane (75-28-5)</b>	

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BCF Fish	1.57 – 1.97
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 at 20 °C (at pH 7)
<b>n-Butane (106-97-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.31 at 20 °C (at pH 7)
<b>Isopentane (78-78-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	4 at 25 °C (at pH 6.6)
<b>n-Pentane (109-66-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.45 at 25 °C (at pH 7)
<b>Propane (74-98-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.09 at 20 °C (at pH 7)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : HYDROCARBONS, LIQUID, N.O.S.  
**Reportable Quantity** : RQ (N-Hexane)  
**Hazard Class** : 3  
**Identification Number** : UN3295  
**Label Codes** : 3  
**Packing Group** : I  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 128



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : HYDROCARBONS, LIQUID, N.O.S.  
**Hazard Class** : 3  
**Identification Number** : UN3295  
**Label Codes** : 3  
**Packing Group** : I  
**EmS-No. (Fire)** : F-E  
**EmS-No. (Spillage)** : S-D  
**Marine pollutant** : Marine pollutant



# Natural Gas Condensate, Unstabilized

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

## 14.3. In Accordance with IATA

**Proper Shipping Name** : HYDROCARBONS, LIQUID, N.O.S.  
**Hazard Class** : 3  
**Identification Number** : UN3295  
**Label Codes** : 3  
**Packing Group** : I  
**ERG Code (IATA)** : 3H



## 14.4. In Accordance with TDG

**Proper Shipping Name** : HYDROCARBONS, LIQUID, N.O.S.  
**Hazard Class** : 3  
**Identification Number** : UN3295  
**Label Codes** : 3  
**Packing Group** : I  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Natural Gas Condensate, Unstabilized</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Aspiration hazard Health hazard - Reproductive toxicity Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Physical hazard - Flammable (gases, aerosols, liquids, or solids)
<b>Nitrogen (7727-37-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Methane (74-82-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Carbon dioxide (124-38-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Ethane (74-84-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Isobutane (75-28-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>n-Butane (106-97-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Isopentane (78-78-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>n-Pentane (109-66-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Propane (74-98-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

### 15.2. US State Regulations

<b>Nitrogen (7727-37-9)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Methane (74-82-8)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List

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<b>Carbon dioxide (124-38-9)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Ethane (74-84-0)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Isobutane (75-28-5)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>n-Butane (106-97-8)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Isopentane (78-78-4)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>n-Pentane (109-66-0)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Propane (74-98-6)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List

### 15.3. Canadian Regulations

<b>Nitrogen (7727-37-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Methane (74-82-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Carbon dioxide (124-38-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethane (74-84-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isobutane (75-28-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Butane (106-97-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isopentane (78-78-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Pentane (109-66-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Propane (74-98-6)</b>
Listed on the Canadian DSL (Domestic Substances List)

# Natural Gas Condensate, Unstabilized

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### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 07/26/2024

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

#### GHS Full Text Phrases:

H220	Extremely flammable gas
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

#### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU\_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC\_RAR: European Commission Renewal Assessment Report

EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA\_API: European Chemicals Agency API

ECHA\_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA\_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

FOOD\_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN\_GHS: Japan GHS Basis for Classification Data

JP\_J-CHECK: Japan J-Check

KR\_NIER: South Korea National Institute of Environmental Research Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM\_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database

OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015 (Can, US)