SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Form: Mixture
Product Name: Ethane

1.2. Intended Use of the Product
Use of the substance/mixture: Hydrocarbon. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party
Company
MarkWest Energy Partners, L.P.
1515 Arapahoe Street
Tower 1, Suite 1600
Denver, Colorado 80202-2126
800-730-8388
http://www.markwest.com/

1.4. Emergency Telephone Number
Emergency Number: 800-730-8388, 800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Simple Asphy
Flam. Gas 1 H220
Compressed gas H280

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US):

Signal Word (GHS-US): Danger

Precautionary Statements (GHS-US):
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - Eliminate all ignition sources if safe to do so.
P403 - Store in a well-ventilated place.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Asphyxiant gas, can be fatal. May cause damage to the blood, central nervous system, and cardiovascular system. High concentrations of gas can cause unconsciousness and death. Being under the influence of alcohol may enhance the effects of this product.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
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<tbody>
<tr>
<td>Ethane</td>
<td>(CAS No) 74-84-0</td>
<td>95 - 97</td>
<td>Simple Asphy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flam. Gas 1, H220</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Liquefied gas, H280</td>
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</table>
**Ethane**

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<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>Flashpoint</th>
<th>Fire Hazard</th>
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<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>0.1 - 2</td>
<td>Flam. Gas 1, H220 Liquefied gas, H280</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>0.1 - 2</td>
<td>Simple Asphy Flam. Gas 1, H220 Compressed gas, H280</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

**SECTION 4: FIRST AID MEASURES**

4.1. Description of First Aid Measures

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). If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists. Thaw frostbitten parts with lukewarm water. Do not rub affected area.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: May cause frostbite on contact with the liquid. This product is an asphyxiant. Lack of oxygen can be fatal.

Symptoms/Injuries After Inhalation: Gas can be toxic as a simple asphyxiant by displacing oxygen from the air. Asphyxia by lack of oxygen: risk of death. May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Contact with the liquid may cause cold burns/frostbite.

Symptoms/Injuries After Eye Contact: This gas is non-irritating; but direct contact with liquefied/pressurized gas or frost particles may produce severe and possibly permanent eye damage from freeze burns.

Symptoms/Injuries After Ingestion: Ingestion is not considered a potential route of exposure. Non-irritating, but solid and liquid forms of this material and pressurized gas may cause freeze burns.

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

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing Media

Suitable Extinguishing Media: Leaking gas fire, do not fight fire unless leak can be stopped safely. Foam, dry chemical, carbon dioxide, water spray, fog

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Extremely flammable gas.

Explosion Hazard: May form flammable/explosive vapor-air mixture. Heating may cause an explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

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

Firefighting Instructions: Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leaking gas fire, eliminate all ignition sources if safe to do so. 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.

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Eliminate every possible source of ignition. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Avoid breathing (gas, vapors, mist, spray). Use only outdoors or in a well-ventilated area. Ruptured cylinders may rocket. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).


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6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

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

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Notify authorities if liquid enters sewers or public waters. Use only non-sparking tools.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Use water spray to disperse vapors. For water based spills contact appropriate authorities and abide by local regulations for hydrocarbon spills into waterways. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

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. Extremely flammable gas. Do not pressurize, cut, or weld containers. Do not puncture or incinerate container. Liquid gas can cause frost-type burns.

Precautions for Safe Handling: Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Avoid breathing gas, spray. Use only outdoors or in a well-ventilated area.

Hygiene Measures: Handle in accordance with good industrial hygiene and safe work practices. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations. Use explosion proof equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Store in a well-ventilated place. Keep container tightly closed. Keep/Store away from extremely high or low temperatures, ignition sources, direct sunlight, incompatible materials. Store in original container.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Hydrocarbon. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

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<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (mg/m³)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (ppm)</th>
<th>USA IDLH</th>
<th>US IDLH (ppm)</th>
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<th>OSHA PEL (TWA) (mg/m³)</th>
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8.2. Exposure Controls

Appropriate Engineering Controls: Gas detectors should be used when flammable gases/vapors may be released. Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof equipment.
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**Personal Protective Equipment**: Protective goggles. Protective clothing. Respiratory protection of the dependent type. Insulated gloves.

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

**Hand Protection**: Wear chemically resistant protective gloves. Insulated gloves.

**Eye Protection**: Chemical goggles or face shield.

**Respiratory Protection**: Use a NIOSH-approved self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Thermal Hazard Protection**: Wear suitable protective clothing.

**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**: Gas
- **Appearance**: Colorless gas (liquid under pressure)
- **Odor**: Odorless
- **Odor Threshold**: No data available
- **pH**: No data available
- **Evaporation Rate**: No data available
- **Melting Point**: -172.22 °C (-278 °F)
- **Freezing Point**: -172.22 °C (-278 °F)
- **Boiling Point**: -88.55 °C (-127.4°F)
- **Flash Point**: -135 °C (-211.0°F)
- **Auto-ignition Temperature**: No data available
- **Decomposition Temperature**: No data available
- **Flammability (solid, gas)**: Extremely flammable gas
- **Vapor Pressure**: 28875 mm Hg @20°C (68°F)
- **Relative Vapor Density at 20 °C**: 1
- **Relative Density**: No data available
- **Solubility**: No data available
- **Partition Coefficient: N-octanol/water**: ~ 3 % Normal Atmospheric
- **Viscosity**: ~ 12 % Normal Atmospheric

#### 9.2. Other Information
No additional information available

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity
Hazardous reactions will not occur under normal conditions.

#### 10.2. Chemical Stability
Extremely flammable gas. Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

#### 10.4. Conditions to Avoid
Direct sunlight, extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.

#### 10.5. Incompatible Materials
Strong acids, strong bases, strong oxidizers, halogens, chlorine.

#### 10.6. Hazardous Decomposition Products
Carbon oxides (CO, CO2), hydrocarbons.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information On Toxicological Effects

**Acute Toxicity**: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 Inhalation Rat</th>
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<tbody>
<tr>
<td>Propane (74-98-6)</td>
<td>658 mg/l/4h</td>
</tr>
<tr>
<td>Ethane (74-84-0)</td>
<td>658 mg/l/4h</td>
</tr>
</tbody>
</table>
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Gas can be toxic as a simple asphyxiant by displacing oxygen from the air. Asphyxia by lack of oxygen: risk of death. May cause drowsiness or dizziness.
Symptoms/Injuries After Skin Contact: Contact with the liquid may cause cold burns/frostbite.
Symptoms/Injuries After Eye Contact: This gas is non-irritating; but direct contact with liquefied/pressurized gas or frost particles may produce severe and possibly permanent eye damage from freeze burns.
Symptoms/Injuries After Ingestion: Ingestion is not considered a potential route of exposure. Non-irritating, but solid and liquid forms of this material and pressurized gas may cause freeze burns.

SECTION 12: ECOLOGICAL INFORMATION
12.1. Toxicity  No additional information available
12.2. Persistence and Degradability

<table>
<thead>
<tr>
<th>Ethane Persistence and Degradability</th>
<th>Product is biodegradable.</th>
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12.3. Bioaccumulative Potential

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<tr>
<th>Ethane Bioaccumulative Potential</th>
<th>Not expected to bioaccumulate.</th>
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</table>

<table>
<thead>
<tr>
<th>Propane (74-98-6) Log Pow</th>
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</table>

<table>
<thead>
<tr>
<th>Ethane (74-84-0) Log Pow</th>
<th>&lt;= 2.8</th>
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</table>

12.4. Mobility in Soil  No additional information available
12.5. Other Adverse Effects

Other Adverse Effects : Can cause frost damage to vegetation.
Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Additional Information: Handle empty containers with care because residual vapors are flammable. Empty gas cylinders should be returned to the vendor for recycling or refilling.

SECTION 14: TRANSPORT INFORMATION
14.1. In Accordance with DOT

Proper Shipping Name : ETHANE
Hazard Class : 2.1
Identification Number : UN1035
Label Codes : 2.1
ERG Number : 115

14.2. In Accordance with IMDG

Proper Shipping Name : ETHANE
Hazard Class : 2
Identification Number : UN1035
Label Codes : 2.1
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

14.3. In Accordance with IATA

Proper Shipping Name : ETHANE
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<th>Identification Number</th>
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<td>Label Codes</td>
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<td>ERG Code (IATA)</td>
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## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

<table>
<thead>
<tr>
<th>Ethane</th>
<th>Fire hazard</th>
<th>Immediate (acute) health hazard</th>
<th>Sudden release of pressure hazard</th>
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<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
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**Propane (74-98-6)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Ethane (74-84-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Methane (74-82-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2 US State Regulations

#### Propane (74-98-6)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
- U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Idaho - Occupational Exposure Limits - TWAs
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
- RTK - U.S. - Massachusetts - Right To Know List
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Special Health Hazards Substances List
- U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - Ohio - Accidental Release Prevention - Threshold Quantities
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- RTK - U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs

#### Ethane (74-84-0)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
- U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities
- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Delaware - Volatile Organic Compounds Exempt from Requirements

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

Revision Date : 05/12/2016
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

- Compressed gas
- Gases under pressure Compressed gas
- Flam. Gas 1
- Flammable gases Category 1
- Liquefied gas
- Gases under pressure Liquefied gas
- Simple Asphy.
- Simple Asphyxiant
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<tbody>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
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<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
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</tbody>
</table>

**NFPA Health Hazard**: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**NFPA Fire Hazard**: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

**NFPA Reactivity Hazard**: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

*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.*

SDS US (GHS HazCom)