# devon

# **SAFETY DATA SHEET**

## 1. Identification

Product identifier Natural Gas Liquids (Y-Grade)

Other means of identification None.

Recommended use Fuel

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Devon Energy Production Company, L.P.

333 W. Sheridan Avenue

Oklahoma City, OK 73102-5010

**Telephone** (405) 235-3611

**Emergency** CHEMTREC 24 Hour Emergency

Within the USA (800) 424-9300 Outside the USA +1 703-527-3887

# 2. Hazard(s) identification

Physical hazards Flammable gases Category 1

Gases under pressure

Flammable liquids

Skin corrosion/irritation

Category 2

Category 2

Serious eye damage/eye irritation Category 2A
Germ cell mutagenicity Category 1B
Carcinogenicity Category 1A
Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Danger

Hazardous to the aquatic environment,

long-term hazard

Category 2

Category 2

**OSHA** defined hazards

Simple asphyxiant

Label elements

Health hazards



Signal word

Hazard statement

Extremely flammable gas. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. May displace oxygen and cause rapid suffocation.

Natural Gas Liquids (Y-Grade)

930276 Version #: 01 Revision date: - Issue date: 17-September-2015

## **Precautionary statement**

Prevention Do not handle until all safety precautions have been read and understood. Keep away from

heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe gas. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If Response

inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Leaking gas fire: Do not extinguish, unless leak can be stopped

safely. Eliminate all ignition sources if safe to do so. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise classified (HNOC)

Contact with liquefied gas may cause frostbite.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	% 15 - 27	
Propane	74-98-6		
Butane	106-97-8	2 - 26	
n-Hexane	110-54-3	1 - 18	
2-Methylbutane	78-78-4	4 - 7	
Isobutane	75-28-5	5 - 6	
Pentane	109-66-0	1 - 9	
Ethane	74-84-0	< 5	
Methane	74-82-8	< 3	

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Inhalation

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact

Not likely, due to the form of the product. If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately. Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Not likely, due to the form of the product. If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105°F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

This material is a gas under normal atmospheric conditions and ingestion is unlikely.

Most important symptoms/effects, acute and delayed

Headache. May cause drowsiness and dizziness. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

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#### **General information**

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur. Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Cool

containers exposed to flames with water until well after the fire is out.

General fire hazards

Extremely flammable gas. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. All equipment used when handling the product must be grounded. Provide adequate ventilation. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool dry place. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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# 8. Exposure controls/personal protection

## Occupational exposure limits

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Pentane (CAS 109-66-0)	PEL	2950 mg/m3	
		1000 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
2-Methylbutane (CAS 78-78-4)	TWA	1000 ppm	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Pentane (CAS 109-66-0)	TWA	1000 ppm	

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

## **Biological limit values**

## **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without	Urine	*
		hvdrolvsis		

<sup>\* -</sup> For sampling details, please see the source document.

## **Exposure guidelines**

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency

shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Natural Gas Liquids (Y-Grade) SDS US General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Colorless, odorless gas. **Appearance** 

Physical state Liquid.

Liquefied gas. **Form** Color Colorless. Odorless. Odor **Odor threshold** Not available. Not available. рH Melting point/freezing point Not available. Initial boiling point and boiling -126.4 °F (-88 °C)

range

-211.0 °F (-135.0 °C) Cleveland Closed Cup Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.1 %

(%)

Flammability limit - upper

12.5 %

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density

0.5 Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 500 °F (260 °C) Not available. **Decomposition temperature Viscosity** Not available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

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# 11. Toxicological information

Information on likely routes of exposure

Inhalation Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen

> below safe breathing levels. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Causes skin irritation. Contact with liquefied gas may cause frostbite. Skin contact

Causes serious eye irritation. Contact with liquefied gas may cause frostbite. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components **Species Test Results** 

2-Methylbutane (CAS 78-78-4)

Acute Inhalation

LC50 Mouse 1000 mg/l, 1 Hours

450 mg/l, 2 Hours

Propane (CAS 74-98-6)

Acute Inhalation

LC50

Rat 1355 mg/l

Skin corrosion/irritation Causes skin irritation. Contact with liquefied gas may cause frostbite.

Serious eve damage/eve

irritation

Causes serious eye irritation. Contact with liquefied gas may cause frostbite.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Isobutane: May cause genetic defects.

Contains a component (isobutane) which is classified as a possible carcinogen. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not likely, due to the form of the product. **Aspiration hazard** 

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components **Species Test Results** 

Pentane (CAS 109-66-0)

Aquatic

EC50 Crustacea Daphnia 2.3 mg/l, 48 Hours

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**Test Results** Components **Species** 

LC50 Fish Fish 3.1 mg/l, 96 Hours

Persistence and degradability

No data is available on the degradability of this product.

# **Bioaccumulative** potential

Partition coefficient n-octanol / water (log Kow)

2.3 2-Methylbutane (CAS 78-78-4) Butane (CAS 106-97-8) 2.89 Ethane (CAS 74-84-0) 1.81 Isobutane (CAS 75-28-5) 2.76 Methane (CAS 74-82-8) 1.09 Pentane (CAS 109-66-0) 3.39 Propane (CAS 74-98-6) 2.36 n-Hexane (CAS 110-54-3) 3.9

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

D001: Waste Flammable material with a flash point <140 F Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

Liquefied petroleum gas (Butane RQ = 714 LBS, Propane RQ = 476 LBS)

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

**UN** number UN1075

**UN proper shipping name** 

Transport hazard class(es)

2.1 Class Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Special precautions for user Not available. **Special provisions** T50 **Packaging exceptions** 306 Packaging non bulk 304

Packaging bulk 314, 315

IATA

UN1075 **UN number** 

**UN** proper shipping name Liquefied petroleum gas (Butane, Propane)

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

**Environmental hazards** 

Special precautions for user Not available.

**IMDG** 

UN1075 **UN number** 

Liquefied petroleum gas (Butane, Propane) **UN proper shipping name** 

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## Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

EmS Not available.

Special precautions for user Not available.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

2-Methylbutane (CAS 78-78-4)	LISTED
Butane (CAS 106-97-8)	LISTED
Ethane (CAS 74-84-0)	LISTED
Isobutane (CAS 75-28-5)	LISTED
Methane (CAS 74-82-8)	LISTED
n-Hexane (CAS 110-54-3)	LISTED
Pentane (CAS 109-66-0)	LISTED
Propane (CAS 74-98-6)	LISTED

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
n-Hexane	110-54-3	1 - 18	

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

2-Methylbutane (CAS 78-78-4)

Butane (CAS 106-97-8)

Ethane (CAS 74-84-0)

Isobutane (CAS 75-28-5)

Methane (CAS 74-82-8)

Pentane (CAS 109-66-0)

Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

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# **US** state regulations

#### **US. Massachusetts RTK - Substance List**

2-Methylbutane (CAS 78-78-4)

Butane (CAS 106-97-8)

Ethane (CAS 74-84-0)

Isobutane (CAS 75-28-5)

Methane (CAS 74-82-8)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Propane (CAS 74-98-6)

## US. New Jersey Worker and Community Right-to-Know Act

2-Methylbutane (CAS 78-78-4)

Butane (CAS 106-97-8)

Ethane (CAS 74-84-0)

Isobutane (CAS 75-28-5)

Methane (CAS 74-82-8)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Propane (CAS 74-98-6)

## US. Pennsylvania Worker and Community Right-to-Know Law

2-Methylbutane (CAS 78-78-4)

Butane (CAS 106-97-8)

Ethane (CAS 74-84-0)

Isobutane (CAS 75-28-5)

Methane (CAS 74-82-8)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Propane (CAS 74-98-6)

## **US. Rhode Island RTK**

2-Methylbutane (CAS 78-78-4)

Butane (CAS 106-97-8)

Ethane (CAS 74-84-0)

Isobutane (CAS 75-28-5)

Methane (CAS 74-82-8)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Propane (CAS 74-98-6)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 17-September-2015

Revision date - 01

HMIS® ratings Health: 3\*

Flammability: 4 Physical hazard: 0

**NFPA** ratings



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