



SECTION 1. IDENTIFICATION

Product Identifier Keyera Condensate

Other Means of Identification

Gas Liquids, Hydrocarbon Condensate

Product Family

Hydrocarbons

Recommended Use

Refinery feedstock. Process feedstock.

Restrictions on Use

None known.

Manufacturer/Supplier

Keyera and Affiliates

Identifier

Suite 200, The Ampersand, West Tower

144 - 4th Avenue SW Calgary, Alberta T2P 3N4

Emergency Phone No.

Keyera and Affiliates, 1-866-377-7110, (24 hr)

CANUTEC (CAN), Ph.: 1-888-CAN-UTEC (226-8832) Cell: *666, (24 hr)

CHEMTREC (US), 1-800-424-9300, (24 hr)

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 1; Acute toxicity (Oral) - Category 2; Acute toxicity (Dermal) - Category 2; Acute toxicity (Inhalation) - Category 3; Skin irritation - Category 2; Eye irritation - Category 2; Aspiration hazard - Category 1

Label Elements









Signal Word: Danger

Hazard Statement(s):

Highly flammable liquid and vapour.

Toxic if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Harmful if inhaled.

Causes eye irritation.

May cause respiratory irritation.

Toxic to aquatic life.

Precautionary Statement(s):

Prevention:

Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, and other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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Avoid breathing vapours.

Wear protective gloves/protective clothing.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.

IF exposed or concerned: Get medical advice or attention.

In case of fire: Evacuate area.

Eliminate all ignition sources if safe to do so.

In case of fire: Use appropriate foam, water spray or fog to extinguish.

Fight fire with normal precautions from a reasonable distance.

Storage:

Store in accordance with local, regional, national and international regulations.

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

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

EMERGENCY OVERVIEW:

FLAMMABLE LIQUID AND VAPOUR. Extremely flammable. May form flammable/explosive vapour-air mixtures. Electrostatic charges may be generated during handling. Electrostatic discharges may cause fire.

General Hygiene Comments:

Do NOT eat, drink or store food in work areas.

Remove contaminated clothing and protective equipment before entering eating areas or leaving work area.

Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS Chemical Name CAS No. Other Identifiers 100 Natural Gas Condensates 68919-69-1 Hydrocarbons Methane 74-82-8 Not detected Methyl hydride Ethane 74-84-0 Trace Ethyl hydride Propane 74-98-6 0.01 - 0.20 Propyl hydride Isobutane 75-28-5 0.01 - 0.502-methylpropane 106-97-8 0.50 - 6.00 Butyl hydride n-Butane 2.00 - 9.00 78-78-4 2-methylbutane Isopentane 109-66-0 2.00 - 11.00 Pentyl hydride n-Pentane 110-54-3 6.00 - 21.00 Not available Hexanes Heptanes 110-54-3 11.00 - 25.00 Not available Octanes 110-54-3 19.00 - 29.00 Not available 13.00 - 48.00 Nonanes+ 110-54-3 Not available Benzene 71-43-2 0.25 - 1.00 Benzol Toluene 108-88-3 4.00 - 7.00 Methylbenzene Ethylbenzene 100-41-4 0.25 - 0.75Phenylethane Xylene (mixed isomers) 1330-20-7 0.25 - 0.751,2/1,3/1,4-dimethylbenzene Sulfur hydride, acid gas Hydrogen Sulfide 7783-06-4 Not Detected

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Notes

Concentrations are expressed in % volume/volume.

May contain trace amounts of hydrogen sulfide.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If the victim has difficulty breathing or tightness in the chest, is dizzy, vomiting, or unresponsive, administer oxygen with rescue breathing or CPR as required. Obtain medical attention immediately.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Immediately call a Poison Centre or doctor. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

Can irritate the nose and throat. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

If in eves

May cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

If swallowed:

Small amounts can irritate the mouth, throat and stomach.

May be drawn into the lungs if swallowed or vomited, causing severe lung damage. Death can result.

Immediate Medical Attention and Special Treatment

Special Instructions

Treat symptomatically. Consult a Poison Control Centre for guidance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Large fire: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do so without risk.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

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Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Large fire: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do so without risk.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or

Unsuitable Extinguishing Media

Do not use water in a stream or jet.

Specific Hazards Arising from the Product

May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire and/or health hazard.

Special Protective Equipment and Precautions for Fire-fighters

Wear full protective clothing and self-contained breathing apparatus. Fight fire from a safe distance or a protected location. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Minimize the use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff. Do not direct water at spill or source. Knock down vapour with fog or fine water spray.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent uncontrolled release of product. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not use near welding operations or other high energy sources. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Electrically bond and ground equipment. Ground clips must contact bare metal. Do not carry or transfer this product in an enclosed space (e.g. in an elevator or inside a vehicle). Wear personal protective equipment to avoid direct contact with this chemical. Do not puncture or incinerate container even when empty.

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Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity), clear of combustible and flammable materials (e.g. old rags, cardboard), out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters	ACGIH TLV®	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Methane	Not established						
Ethane	Not established						
Propane	1000 ppm						
Isobutane		1000 ppm					
n-Butane		1000 ppm	800 ppm				
Isopentane	600 ppm						
n-Pentane	600 ppm		1000 ppm				
Hexanes	50 ppm Skin		500 ppm				
Heptanes	400 ppm	500 ppm	500 ppm				
Octanes	300 ppm		500 ppm				
Nonanes+	200 ppm						
Benzene	0.5 ppm A4 Skin	0.5 ppm A4 Skin					
Toluene	20 ppm A4		200 ppm				
Ethylbenzene	100 ppm	125 ppm					
Xylene (mixed isomers)	100 ppm A4	150 ppm A4					
Natural gas condensates	5 mg/m3		5 mg/m3				

Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Avoid repeated or prolonged skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots. Wear fire resistant or flame retardant clothing.

Respiratory Protection

Not normally required if product is used as directed. Use appropriate OSHA/NIOSH approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties
Appearance liquid.

Odour Hydrocarbon
Odour Threshold Not available

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pH Not applicable

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Boiling point/Initial boiling point < 35 °C

Boiling Range 20 - 151 °C (Natural gas condensates)

Flash Point < -20.5 °C (closed cup)

Evaporation Rate Not available Flammability (solid, gas) Flammable liquid.

Flammability (solid, gas) Flammable liquid

Upper/Lower Flammability or Not available (up

Explosive Limit

Not available (upper); Not available (lower)

Vapour Pressure <= 101 kPa at 37.8°C (100°F)

Vapour Density (air = 1) > 1 (estimated)

Relative Density (water = 1) 0.700 - 0.740 at 15 °C

Solubility Practically insoluble in water; Highly soluble in common organic solvents.

Partition Coefficient, n- Not available

Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Viscosity <= 0.905 centistokes at 10°C (50°F) (kinematic)

Other Information

Physical State Liquid

Molecular FormulaNot availableMolecular WeightNot available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Not sensitive to mechanical impact.

Conditions to Avoid

Heat. High temperatures. Open flames, sparks, static discharge, heat and other ignition sources. Incompatible materials.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Combustion releases carbon dioxide, trace amounts of sulfur oxides, and nitrogen oxides. A lack of oxygen during combustion can produce carbon monoxide and other toxic and flammable products. Hazardous decomposition products are not expected to form during normal storage.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Methane	Not available	Not available	Not applicable
Ethane	Not available	Not available	Not applicable
Propane	> 800000 ppm (rat)	Not applicable	Not applicable
	(30-minute exposure)		
Isobutane	368000 mg/kg (male mouse)	> 5000 mg/kg	> 5000 mg/kg
	(4-hour exposure) (vapour)		
n-Butane	658 mg/L (rat) (4-hour	Not available	Not available
	exposure)		
Isopentane	140000 ppm (mouse)	> 2000 mg/kg (rat)	Not available
	(2-hour exposure) (vapour)		
n-Pentane	6106 ppm (rat) (4-hour	> 2000 mg/kg (rat)	Not available
	exposure)		
Hexanes	73680 ppm (rat) (4-hour	32290 mg/kg (male rat)	> 3295 mg/kg (rabbit)
	exposure) (vapour)		
Heptanes	~ 25000 ppm (rat) (4-hour	> 15000 mg/kg (rat)	Not available
	exposure)		
Octanes	25250 ppm (rat) (4-hour	Not available	Not available
	exposure)		
Nonanes	3200 ppm (rat) (4-hour	Not available	Not available
	exposure)		
Decanes+	72300 mg/m3 (mouse)	Not available	Not available
	(2-hour exposure) (aerosol)		
Benzene	13700 ppm (rat) (4-hour	930 mg/kg (rat)	> 8240 mg/kg (rabbit)
	exposure)		
Toluene	7585 ppm (rat) (4-hour	5580 mg/kg (male rat)	12125 mg/kg (rabbit)
	exposure)		
Ethylbenzene	~ 4000 ppm (rat) (4-hour	3500 mg/kg (rat)	15380 mg/kg (rabbit)
	exposure)		
Xylene (mixed isomers)	6350 ppm (male rat)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
	(4-hour exposure)		
Natural gas condensates	> 4300 ppm (rat) (vapour)	> 5 g/kg (rat)	> 2 g/kg (rat)

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals. (Crude Oil) contact may cause irritation to the skin and mucous membranes upon prolonged and/or repeated skin contact. Prolonged or repeated skin contact to natural gas condensate may cause defatting of the skin leading to redness, itching, inflammation, cracking, dermatitis (rash).

Serious Eye Damage/Irritation

May cause mild irritation based on information for closely related chemicals. (Crude Oil)

May be irritating to eyes. Symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not an expected route of exposure, but vapours may cause irritation of the nose and throat. May be harmful.

Skin Absorption

Liquid may be absorbed through the skin if large areas of skin are exposed. May be harmful.

Ingestion

May be harmful Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

If small amounts are ingested: can irritate the mouth, throat and stomach.

If large amounts are ingested: harmful.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Material in general is not expected to cause harm. May cause damage to organs based on studies in people and animals. Following skin contact: symptoms may include dry, red, cracked skin (dermatitis).

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer.

Not a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Benzene	Group 1	A1	Known carcinogen	Carcinogen

The material in general is not considered a carcinogen, however, all appropriate precautions should still be taken due to the presence of benzene in the product. Material contains benzene, a known carcinogen.

Reproductive Toxicity

Development of Offspring

Material in general is not expected to cause harm. The material in general is not expected to produce teratogenic or embryotoxic effects.

Sexual Function and Fertility

Material in general is not expected to cause harm. The material in general is not expected to have toxic reproductive effects. Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Material in general is not expected to cause harm. The material in general is not expected to produce mutagenic effects. Not known to be a mutagen.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life, animals, birds.

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Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

Mobility in Soil

If released into the environment, this product is expected to move rapidly through the soil, based on physical and chemical properties. Contamination of groundwater could occur. If released into soil, this material will absorb and may biodegrade in anaerobic conditions. In water it may become volatile. Photo-oxidation products may include phenol, nitrophenols, nitrobenzene, formic acid. If released, this material will move rapidly through and into the environment.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Material Disposal:

This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Do not discharge into areas where there is a risk of forming an explosive mixture with air.

Local Legislation:

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group	
			Ciass(es)	Стоир	
Canadian TDG	1268	PETROLEUM DISTILLATE, N.O.S.] 3	l l	
US DOT	1268	PETROLEUM DISTILLATE, N.O.S.	3	I	

Environmental

Hazards

Environmentally Hazardous Substance

Please note: No special precautions required. **Special Precautions**

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

Emergency Response GUIDE 128

Other Information

Guide No.

Transport Class and Packing Group assigned are based on the general physical properties

and composition of the material and related products.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This section is not required by WHMIS 2015.

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SECTION 16. OTHER INFORMATION

NFPA Rating Health - 3 Flammability - 3 Instability - 0

SDS Prepared By Bureau Veritas Canada

Phone No. 1-800-386-7247

Date of Preparation January 07, 2021 **Date of Last Revision** January 07, 2021

Revision Indicators Not applicable

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault

Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and

Safety (CCOHS).

Disclaimer This SDS provides safety information and was developed for employees, customers and

agents of Keyera and Affiliates from data obtained from the sample(s) submitted to Bureau Veritas Canada for analysis. The information may not be valid or complete if the product or material is used in combination with other products or materials, or in any process. This information is intended for reasonable normal usage and recommended practices, and to underscore the potential hazards that may be inherent to the nature of the product or material.

Although every effort is made to ensure accuracy and completeness of the contained information, it is understood that Bureau Veritas Canada makes no warranty as to the accuracy or completeness of information and assumes no liability for any damage or loss suffered as

Affiliates at the address shown to ensure the information is up to date or to obtain further

result of any inaccuracy or incompleteness therein. This information is considered to be as accurate as possible, as of the date of preparation. The reader is invited to contact Keyera and

information related to normal product use, or any unusual or other use.

SDS representative sample(s):

ADT Condensate Brazeau River Condensate Cheecham Condensate Cynthia Condensate

Edmonton Terminal Condensate
Fort Saskatchewan Condensate
Nordegg River Condensate

Pembina North Condensate Pipestone Condensate Rimbey Condensate Simonette Condensate Strachan Condensate Wapiti Condensate Zeta Creek Condensate

