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SAFETY DATA SHEET

Section 1: IDENTIFICATION		
Product Name:	Condensate, Sour - PG I	
Synonyms:	Not available.	
Product Use:	Refinery feedstock.	
Restrictions on Use:	Not available.	
Manufacturer/Supplier:	ARC Resources Ltd. 1200, 308 4th Avenue SW Calgary, AB, T2P 0H7	
Phone Number:	403-503-8600	
Emergency Phone:	403-292-0434 CANUTEC: 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone	
Date of Preparation of SDS:	October 16, 2023	

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Flammable Liquids, Category 1 Acute Toxicity - Inhalation, Category 2 Skin Irritation, Category 2 Germ Cell Mutagenicity, Category 1B Carcinogenicity, Category 1A Reproductive Toxicity, Category 2 Specific Target Organ Toxicity (Single Exposure), Category 3 - Narcotic Effects Specific Target Organ Toxicity (Repeated Exposure), Category 2 Aspiration Hazard, Category 1

LABEL ELEMENTS

Danger

Hazard Pictogram(s):

Signal Word:



HazardExtremely flammable liquid and vapor.Statements:Fatal if inhaled. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exp May be fatal if swallowed and enters airways.	osure.
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Precautionary Statements

Prevention: Obtain special instructions before use.



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Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist, vapours, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing and eye protection. Wear respiratory protection. Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire use: Dry chemical, CO2, water spray or alcohol-resistant foam. Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200). This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENT	S
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Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Natural gas condensates (petroleum)	Not available.	64741-47-5	100
Decane	Not available.	124-18-5	1 - 7
Nonane	Not available.	111-84-2	1 - 7
Octane	Not available.	111-65-9	1 - 7
Heptane	Not available.	142-82-5	1 - 7
Hexane	Not available.	110-54-3	1 - 7
Pentane	Not available.	109-66-0	0.5 - 5
Butane, 2-methyl-	Isopentane	78-78-4	0.5 - 5
Butane	Not available.	106-97-8	0.5 - 5

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Propane, 2-methyl-	Isobutane	75-28-5	0.1 - 1.5
Propane	Not available.	74-98-6	0.1 - 1.5
Ethane	Not available.	74-84-0	< 0.1
Methane	Not available.	74-82-8	< 0.1
Benzene, dimethyl-	Xylene	1330-20-7	0.5 - 5
Benzene, methyl-	Toluene	108-88-3	0.5 - 5
Benzene	Not available.	71-43-2	0.1 - 1
Benzene, ethyl-	Ethylbenzene	100-41-4	0.1 - 1
Cyclohexane, methyl-	Methylcyclohexane	108-87-2	0.5 - 5
Cyclohexane	Not available.	110-82-7	0.1 - 1.5
Cyclopentane, methyl-	Methylcyclopentane	96-37-7	0.1 - 1.5
Cyclopentane	Not available.	287-92-3	0.1 - 1
Benzene, 1,2,4-trimethyl-	1,2,4-	95-63-6	0.5 - 1.5
	Trimethylbenzene		
Polycyclic Aromatic Hydrocarbons	Not available.	130498-29-2	Variable.
Hydrogen sulfide (H2S)	Hydrogen sulphide	7783-06-4	< 0.01

Section 4: FIRST-AID MEASURES

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

Acute and delayed symptoms and effects: Fatal if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness. This product contains Hydrogen sulphide which may accumulate in confined spaces. Inhalation of Hydrogen sulphide may cause loss of sense of smell, major irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and fluid buildup in the lungs (pulmonary edema), which can be fatal. At 300 ppm unconsciousness may occur after 20 minutes. From 300 to 500 ppm, death can occur within minutes of continuous exposure. Above 500 ppm Hydrogen sulphide may cause instantaneous loss of consciousness and immediate death. High vapour concentrations of Xylene are anesthetic and central nervous system depressants. Inhalation of Toluene may result in peculiar skin sensations (e.g. pins and needles) or numbness. Very high concentrations may cause unconsciousness and death.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Hydrogen sulphide may cause eye irritation at 1-20 ppm and acute conjunctivitis at higher concentrations. Above 50 ppm H2S, eye irritation may



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include symptoms of redness, severe swelling, tearing, sensitivity to light and the appearance of 'Halos' around lights.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Acute and delayed symptoms and effects: Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If breathing or the heart stops, trained personnel should immediately begin artificial respiration (AR) or cardiopulmonary resuscitation (CPR) respectively. Get medical attention immediately.

Acute and delayed symptoms and effects: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Isopentane may cause ventricular fibrillation and kidney, liver, and bone marrow damage. Swallowed liquids can vapourize in the trachea. Aspiration into the lungs is an asphyxiation hazard.

- **General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
- **Note to Physicians:** Symptoms may not appear immediately. To monitor n-Hexane exposure, measure n-hexane in expired air. Analgesics may be necessary for pain management, there is no specific antidote. Monitor arterial blood gases in cases of severe aspiration. For inhalation of Hydrogen Sulphide, consider oxygen.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Extremely flammable liquid and vapor. Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion and poison hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water. When heated, this material may evolve toxic and flammable Hydrogen sulphide.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use



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unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Sensitivity to Mechanical Impact:	This material is not sensitive to mechanical impact.
Sensitivity to Static Discharge:	Take action to prevent static discharges. This material is sensitive to static discharge.
MEANS OF EXTINCTION	
Suitable Extinguishing Media:	Small Fire: Dry chemical, CO2, water spray or alcohol- resistant foam.
	Large Fire: Water spray, fog or alcohol-resistant foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material. Use water spray or fog; do not use straight streams.
Unsuitable Extinguishing Media:	CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient.
Products of Combustion:	Oxides of carbon. Oxides of sulphur. Aldehydes.
Protection of Firefighters:	TOXIC; may be fatal if inhaled, ingested or absorbed through skin. Inhalation or contact with some of these materials will irritate or burn skin and eyes. Fire will produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution. Hydrogen sulphide is heavier than air and may collect in low lying areas and confined spaces. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded.
Personal Precautions:	Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Use personal protection recommended in Section 8. Don full-face, positive pressure, self-contained breathing apparatus.



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Environmental Precautions:	Prevent entry into waterways, sewers, basements or confined areas.
Methods for Containment:	Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors.
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Large spills should be removed with explosion proof vacuum equipment.
Other Information:	See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist, vapours, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Harmful concentrations of hydrogen sulfide (H2S) gas can accumulate in excavations and low-lying areas as well as the vapour space of storage and bulk transport compartments. See Section 8 for information on Personal Protective Equipment.

Storage:

Limit quantity of material in storage. Restrict access to storage area. Post appropriate warning signs. Keep storage area separate from populated work areas. Consider leak detection and alarm systems, as required. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children. Head spaces in storage containers may contain toxic hydrogen sulphide gas. Structural materials and lighting and ventilation systems should be corrosion resistant.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Natural gas condensates (petroleum) [CAS No. 64741-47-5]

ACGIH: No TLV established. **OSHA:** No PEL established.

Decane [CAS No. 124-18-5] ACGIH: No TLV established. **OSHA:** No PEL established.

Nonane [CAS No. 111-84-2]

ACGIH: 200 ppm (TWA); (2011)

OSHA: 200 ppm (TWA) [Vacated];

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SAFETY DATA SHEET Octane [CAS No. 111-65-9] ACGIH: 300 ppm (TWA); (1999) **OSHA:** 500 ppm (TWA), 2350 mg/m³ (TWA); 300 ppm (TWA); 375 ppm (STEL) [Vacated]; Heptane [CAS No. 142-82-5] ACGIH: 400 ppm (TWA); 500 ppm (STEL); (1979) OSHA: 500 ppm (TWA), 2000 mg/m³ (TWA); 400 ppm (TWA); 500 ppm (STEL) [Vacated]; Hexane [CAS No. 110-54-3] ACGIH: 50 ppm (TWA); Skin, BEI (1998) OSHA: 500 ppm (TWA), 1800 mg/m³ (TWA); Skin. 50 ppm (TWA) [Vacated]; Pentane [CAS No. 109-66-0] ACGIH: 1000 ppm (TWA); (2014) **OSHA:** 1000 ppm (TWA), 2950 mg/m³ (TWA); 600 ppm (TWA); 750 ppm (STEL) [Vacated]; Isopentane [CAS No. 78-78-4] **ACGIH:** 1000 ppm (TWA); (2014) **OSHA:** No PEL established. Butane [CAS No. 106-97-8] ACGIH: 1000 ppm (STEL); Explosion hazard (2017) OSHA: 800 ppm (TWA) [Vacated]; Isobutane [CAS No. 75-28-5] ACGIH: 1000 ppm (STEL); Explosion hazard (2017) **OSHA:** No PEL established. Propane [CAS No. 74-98-6] ACGIH: Simple asphyxiant; Explosion hazard OSHA: 1000 ppm (TWA), 1800 mg/m³ (TWA); Ethane [CAS No. 74-84-0] ACGIH: Simple asphyxiant; Explosion hazard **OSHA:** No PEL established. Methane [CAS No. 74-82-8] ACGIH: Simple asphyxiant; Explosion hazard **OSHA:** No PEL established. Xylene [CAS No. 1330-20-7] ACGIH: 20 ppm (TWA); OTO; A4; BEI (2021) **OSHA:** 100 ppm (TWA), 435 mg/m³ (TWA); 150 ppm (STEL) [Vacated];



Toluene [CAS No. 108-88-3]

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ACGIH: 20 ppm (TWA); OTO; A4; BEI (2020) OSHA: 200 ppm (TWA); 300 ppm (C); 500 ppm (Peak) (Maximum duration: 10 minutes.) 100 ppm (TWA); 150 ppm (STEL) [Vacated]; Benzene [CAS No. 71-43-2] ACGIH: 0.5 ppm (TWA); 2.5 ppm (STEL); Skin; A1; BEI (1997) OSHA: 1 ppm (TWA); 5 ppm (STEL); Ethylbenzene [CAS No. 100-41-4] ACGIH: 20 ppm (TWA); OTO; A3; BEI (2021) **OSHA:** 100 ppm (TWA), 435 mg/m³ (TWA); 125 ppm (STEL) [Vacated]; Methylcyclohexane [CAS No. 108-87-2] ACGIH: 400 ppm (TWA): (1987) OSHA: 500 ppm (TWA), 2000 mg/m³ (TWA); 400 ppm (TWA) [Vacated]; Cyclohexane [CAS No. 110-82-7] ACGIH: 100 ppm (TWA); (2020) OSHA: 300 ppm (TWA), 1050 mg/m³ (TWA); Methylcyclopentane [CAS No. 96-37-7] ACGIH: No TLV established. **OSHA:** No PEL established. Cyclopentane [CAS No. 287-92-3] ACGIH: 1000 ppm (TWA); Explosion hazard (2021) **OSHA:** 600 ppm (TWA) [Vacated]; 1,2,4-Trimethylbenzene [CAS No. 95-63-6] ACGIH: 10 ppm (TWA); A4 (2021) **OSHA:** No PEL established. Polycyclic Aromatic Hydrocarbons [CAS No. 130498-29-2] ACGIH: A2; BEI; Exposure by all routes should be carefully controlled to levels as low as possible (1993); For Benz[a]anthracene **OSHA:** 0.2 mg/m³ (TWA); For benzene-soluble fraction. Hydrogen sulphide [CAS No. 7783-06-4] ACGIH: 1 ppm (TWA); 5 ppm (STEL); (2010);

OSHA: 20 ppm (C); 50 ppm (Peak) (Maximum duration: 10 mins. once only if no other meas. exp. occurs.)

10 ppm (TWA); 15 ppm (STEL) [Vacated];

PEL: Permissible Exposure Limit TLV: Threshold Limit Value TWA: Time-Weighted Average STEL: Short-Term Exposure Limit C: Ceiling



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Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits. Use explosion-proof electrical, ventilating, and lighting equipment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:	Wear chemical safety goggles. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3:20 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
Hand Protection:	Wear protective gloves. Consult manufacturer specifications for further information.
Skin and Body Protection:	Wear protective clothing. Flame resistant clothing that meets the NFPA 2112 and CAN/CGSB 155.20-2017 standards is recommended in areas where material is stored or handled.
Respiratory Protection:	Wear respiratory protection. If engineering controls and ventilation are not sufficient to control exposure to below regulatory limits then a self-contained breathing apparatus or supplied air breathing apparatus must be used.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Colourles, orange, or brown liquid.	
Colour:	Colourles, orange, or brown.	
Odour:	Hydrocarbon. Rotten eggs. May be odourless (due to high H2S concentrations present).	
Odour Threshold:	0.0047 ppm, (Hydrogen sulphide)	
Physical State:	Liquid.	
pH:	Not available.	
Melting Point / Freezing Point:	Not available.	
Initial Boiling Point:	≤ 35 °C (95 °F)	
Boiling Range:	Not available.	
Flash Point:	< 0 °C (32 °F) (PMCC) (ASTM D93)	
Evaporation Rate:	Not available.	



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Flammability (solid, gas):	Not applicable.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Relative Vapor Density:	Not available.
Relative Density:	0.770 to 0.810 (Water = 1) at 15 °C (59 °F)
Solubilities:	Sparingly soluble in water.
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Kinematic Viscosity:	< 5 cSt at 40 °C (104 °F)
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.
Density:	770 to 810 kg/m³ at 15 °C (59 °F)
Coefficient of Water/Oil Distribution:	Not available.
Particle Characteristics:	Not available.

Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.		
Chemical Stability:	Stable under normal storage conditions.		
Possibility of Hazardous Reactions: None known.			
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.		
Incompatible Materials:	Strong acids. Bases. Strong oxidizers. Metals. Oxides of nitrogen. Chlorine. Halogens. Perchlorates. Metal oxides. Metal salts.		
Hazardous Decomposition	Products: Hazardous sulphur dioxide, and related oxides of sulphur may be generated upon combustion.		

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.



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Component Toxicity Component Natural gas condensates (petroleum)	CAS No. 64741-47-5	LD ₅o oral Not available.	LD ₅o dermal Not available.	LC ₅₀ 600 mg/m³ (rat); 4H
Decane	124-18-5	Not available.	Not available.	> 1369 ppm (rat); 8H
Nonane	111-84-2	Not available.	Not available.	3200 ppm (rat); 4H
Octane	111-65-9	Not available.	Not available.	118000 mg/m³ (rat); 4H
Heptane	142-82-5	Not available.	Not available.	103000 mg/m³ (rat); 4H
Hexane	110-54-3	25000 mg/kg (rat)	Not available.	48000 ppm (rat); 4H
Pentane	109-66-0	400 mg/kg (rat)	Not available.	364000 mg/m³ (rat); 4H
Isopentane	78-78-4	Not available.	Not available.	Not available.
Butane	106-97-8	Not available.	Not available.	658000 mg/m³ (rat); 4H
Isobutane	75-28-5	Not available.	Not available.	570000 ppm (rat); 15M
Propane	74-98-6	Not available.	Not available.	Not available.
Ethane	74-84-0	Not available.	Not available.	Not available.
Methane	74-82-8	Not available.	Not available.	Not available.
Xylene	1330-20-7	4300 mg/kg	> 1700 mg/kg	5000 ppm (rat);
,		(rat)	(rabbit)	4H
Toluene	108-88-3	2600 mg/kg (rat)	14.1 mL/kg (rabbit)	49000 mg/m³ (rat); 4H
Benzene	71-43-2	930 mg/kg (rat)	> 9400 µL/kg (rabbit)	10000 ppm (rat); 7H
Ethylbenzene	100-41-4	3500 mg/kg (rat)	17800 µL/kg (rabbit)	Not available.
Methylcyclohexane	108-87-2	> 3200 mg/kg (rat)	> 867Ó0 mg/kg (rabbit)	15227 ppm (rabbit); 1H
Cyclohexane	110-82-7	813 mg/kg (mouse)	180000 mg/kg (rabbit)	Not available.
Methylcyclopentane	96-37-7	Not available.	Not available.	Not available.
Cyclopentane	287-92-3	11400 mg/kg (rat)	Not available.	106000 mg/m ³ (rat); 4H
1,2,4- Trimethylbenzene	95-63-6	5000 mg/kg (rat)	Not available.	18000 mg/m³ (rat); 4H
Polycyclic Aromatic Hydrocarbons	130498-29-2	Not available.	Not available.	Not available.
Hydrogen sulphide	7783-06-4	Not available.	Not available.	444 ppm (rat); 4H

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.



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Target Organs:

Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood. Cardiovascular system. Bone marrow. Liver. Kidneys. Reproductive system. Central nervous system. Peripheral nervous system.

Symptoms (including delayed and immediate effects)

- Inhalation: Fatal if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness. This product contains Hydrogen sulphide which may accumulate in confined spaces. Inhalation of Hydrogen sulphide may cause loss of sense of smell, major irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and fluid buildup in the lungs (pulmonary edema), which can be fatal. At 300 ppm unconsciousness may occur after 20 minutes. From 300 to 500 ppm, death can occur within minutes of continuous exposure. Above 500 ppm Hydrogen sulphide may cause instantaneous loss of consciousness and immediate death. High vapour concentrations of Xylene are anesthetic and central nervous system depressants. Inhalation of Toluene may result in peculiar skin sensations (e.g. pins and needles) or numbness. Very high concentrations may cause unconsciousness and death.
- **Eye:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Hydrogen sulphide may cause eye irritation at 1-20 ppm and acute conjunctivitis at higher concentrations. Above 50 ppm H2S, eye irritation may include symptoms of redness, severe swelling, tearing, sensitivity to light and the appearance of 'Halos' around lights.
- **Skin:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
- **Ingestion:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Isopentane may cause ventricular fibrillation and kidney, liver, and bone marrow damage. Swallowed liquids can vapourize in the trachea. Aspiration into the lungs is an asphyxiation hazard.
- Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Aggravated By Exposure: Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

- Target Organs:Skin. Eyes. Gastrointestinal tract. Respiratory system. Central nervous
system. Cardiovascular system. Lungs. Blood. Bone marrow. Liver. Spleen.
Kidneys. Reproductive system. Peripheral nervous system.
- **Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation. High vapour concentrations, generally greater than 10% by volume, may sensitize the heart and lead to lethal cardiac arrhythmias. Reports of chronic poisoning with Benzene, Toluene, Ethylbenzene or Xylene describe anemia,



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decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Repeated exposure of the eves to high concentrations of Xylenes vapour may cause reversible eye damage. Chronic inhalation exposure to xylene causes mid-frequency hearing loss in laboratory animals. Xylene reacts synergistically with n-hexane to enhance hearing loss. Immunodepressive effects have also been reported for Benzene. At relatively low concentrations, Natural gas condensate may result in chronic hypoxia including effects such as decreased night vision, increased respiration, decreased alertness, fatigue, tunnel vision and headache. Other potential chronic effects include peripheric neuropathy and blurred vision, aplastic anemia, acute myoblastic leukemia, bone marrow depression, corneal vacuolization erythroleukemia and even death. This material contains Butane, which is linked with cardiac sensitization. Prolonged or repeated skin contact with Nonane may cause liver and kidney damage and cause blood effects. Chronic inhalation of n-Hexane may cause peripheral nerve disorders and central nervous system effects. Prolonged or repeated inhalation of Isopentane may cause dizziness, weakness, weight loss, anemia, nervousness, pains in the limbs and peripheral numbness. This material contains Cyclohexane which is known to cause liver and kidney damage. 1,2,4-Trimethylbenzene may cause CNS changes, asthmatic bronchitis, and changes in the blood such as anemia or thrombocytopenia (i.e. low thrombocyte count that may affect the blood's ability to clot). This product contains Polycyclic Aromatic Hydrocarbons. Prolonged contact with these compounds has been associated with the induction of skin and lung tumours, anemia, disorders of the liver, bone marrow and lymphoid tissues. Hydrogen sulphide may reduce lung function; cause neurological effects such as headaches, nausea, depression and personality changes; eye and mucous membrane irritation; and damage to cardiovascular system.

Carcinogenicity: May cause cancer. This product contains Benzene (a known human carcinogen) and Ethylbenzene (a possible human carcinogen). Chronic exposure to benzene has been associated with an increased incidence of leukemia and multiple myeloma (tumour composed of cells of the type normally found in the bone marrow). This material contains Polycyclic Aromatic Hydrocarbons (PAHs), some of which are animal carcinogens.

Component Carcinogenicity						
Component	ACGIH	IARC	NTP	OSHA	Prop 65	
Xylene	A4	Group 3	Not listed.	Not listed.	Not listed.	
Toluene	A4	Group 3	Not listed.	Not listed.	Not listed.	
Benzene	A1	Group 1	List 1	OSHA Carcinogen.	Listed.	
Ethylbenzene	A3	Group 2B	Not listed.	OSHA Carcinogen.	Listed.	
Polycyclic Aromatic Hydrocarbons	A2	Not listed.	List 2	OSHA Carcinogen.	Listed.	

Mutagenicity: May cause genetic defects.



Condensate, Sour - PG I

SAFETY DATA SHEET		Date of Preparation: October 16, 2023	
Reproductive Effects:	Suspected of damaging fertility or the unborn child. This material contains Pentane and Benzene. Spontaneous abortion is possible for women exposed to Pentane during pregnancy. Benzene exposure has been linked to menstrual changes, spontaneous abortion and still birth.		
Developmental Effects Teratogenicity:	Not available.		
Embryotoxicity:	This material contains Xylene, which is embryotoxic. Exposure to xylene has produced fetotoxic effects in animal studies. Exposure to Toluene may affect the developing fetus. Benzene has caused adverse fetal effects in laboratory animals.		
Toxicologically Synergis	tic Materials:	Xylene reacts synergistically with n-hexane to enhance hearing loss.	

Section 12: ECOLOGICAL INFORMATION			
Ecotoxicity:	Not available.		
Persistence / Degradability:	Not available.		
Bioaccumulation / Accumulation:	Not available.		
Mobility in Environment:	Not available.		
Other Adverse Effects:	Not available.		

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) Proper Shipping Name: UN3494, PETROLEUM SOUR CRUDE OIL, FLAMMABLE, TOXIC, 3 (6.1), PG I			
Class:	3 (6.1)		
UN Number:	UN3494		
Packing Group:	I		
Placard(s):	FLAMMABLE 3 6		



Condensate, Sour - PG I

Date of Preparation: October 16, 2023

Canada Transportation of Dangerous Goods (TDG)Proper Shipping Name:UN3494, PETROLEUM SOUR CRUDE OIL, FLAMMABLE, TOXIC, 3 (6.1), PG I, Toxic by inhalation				
Class:	3 (6.1)			
UN Number:	UN3494			
Packing Group:	I			
Placard(s):	Toxic by inhalation			

Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

Component	Section	Section	CERCLA	Section	RCRA	САА
Component	302 (EHS) TPQ (lbs.)	304 EHS RQ (lbs.)	RQ (lbs.)	313	CODE	112(r) TQ (lbs.)
Hexane	Not listed.	Not listed.	5000	313	Not listed.	Not listed.
Pentane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isopentane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Butane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Ethane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Methane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
		notou.	notou.			10000



Condensate, Sour - PG I

SAFETY DATA SHEET					Date of Preparation: C	October 16, 2023
Xylene	Not listed.	Not listed.	100	313	U239	Not listed.
Toluene	Not listed.	Not listed.	1000	313	U220	Not listed.
Benzene	Not listed.	Not listed.	10	313	U019	Not listed.
Ethylbenzene	Not listed.	Not listed.	1000	313	Not listed.	Not listed.
Cyclohexane	Not listed.	Not listed.	1000	313	U056	Not listed.
1,2,4- Trimethylbenzene	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.
Polycyclic Aromatic Hydrocarbons	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.
Hydrogen sulphide	500	100	100	313	U135	10000

California California Prop 65:

WARNING This product can expose you to chemicals including Benzene, Ethylbenzene, Hexane, Naphthalene, Toluene, and Polycyclic Aromatic Hydrocarbons which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS:	October 16, 2023
Version:	3.0
GHS SDS Prepared by:	Deerfoot Consulting Inc.
	Phone: (403) 720-3700