

# **Natural Gas Condensate (Sour)**

Date of Preparation: August 1, 2023

#### **Section 1: IDENTIFICATION**

Product Name: Natural Gas Condensate (Sour)

Synonyms: Natural Gas Liquids (Sour NGL)

**Product Use:** Refinery feedstock.

**Restrictions on Use:** Not available.

Manufacturer/Supplier: Caledonian Midstream Corporation

Suite 2110 – 555 4th Ave. S.W.

Calgary, Alberta, T2P 3E7

Phone Number: (403) 532-8800 Emergency Phone: 1-855-864-5711

24-hr Emergency Number: 1-855-864-5711

CANUTEC (613) 996-6666

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# Section 2: HAZARD(S) IDENTIFICATION

#### **GHS INFORMATION**

Classification: Flammable Liquids, Category 1

Acute Toxicity - Inhalation, Category 2 \*

Skin Irritation, Category 2 Eye Irritation, Category 2B

Germ Cell Mutagenicity, Category 1B

Carcinogenicity, Category 1A Toxic to Reproduction, Category 2

Specific Target Organ Toxicity (Single Exposure), Category 3 - Narcotic Effects

Specific Target Organ Toxicity (Repeated Exposure), Category 1

Aspiration Hazard, Category 1

\* This classification is based on the potential for release of Hydrogen sulphide.

#### LABEL ELEMENTS

Hazard

Pictogram(s):







Signal Word: Danger

**Hazard** Extremely flammable liquid and vapour.

**Statements:** Fatal if inhaled.

Causes skin irritation.
Causes eye irritation.
May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.



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Causes damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

**Precautionary Statements** 

Prevention: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. 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, and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mist, vapours, or spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face 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/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use dry chemical, CO2, water spray or regular foam to extinguish.

**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).



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Section 3: COMPOSITION / INFORMATION ON INGREDIENTS				
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.	
Natural gas condensates (petroleum)	Not available.	64741-47-5	100	
Heptane	Not available.	142-82-5	40 - 70	
Hexane	Not available.	110-54-3	10 - 30	
Pentane	Not available.	109-66-0	7 - 13	
Butane, 2-methyl-	Isopentane	78-78-4	5 - 10	
Butane	Not available.	106-97-8	3 - 7	
Benzene	Not available.	71-43-2	1 - 5	
Benzene, methyl-	Toluene	108-88-3	1 - 5	
Benzene, ethyl-	Ethylbenzene	100-41-4	1 - 5	
Benzene, dimethyl-	Xylenes	1330-20-7	1 - 5	
Propane	Not available.	74-98-6	1 - 5	
Propane, 2-methyl-	Isobutane	75-28-5	1 - 5	
Hydrogen sulfide (H2S)	Not available.	7783-06-4	0.05 - 0.1	

#### **Section 4: FIRST-AID**

#### Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. 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. Inhalation of Toluene may result in peculiar skin sensations (e. g. pins and needles) or numbness. Hydrogen sulphide may cause symptoms such as digestive upset and loss of appetite, loss of sense of smell and pulmonary edema. At 500-1000 ppm Hydrogen sulphide may cause respiratory paralysis, collapse and death without rescue.

# **Eye Contact:**

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.

Acute and delayed symptoms and effects: Causes 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.



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**Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower. Call a poison center or doctor/physician if you feel

unwell. If skin irritation occurs: Get medical advice/attention. Wash

contaminated clothing 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/physician. If vomiting occurs naturally, have victim lean forward to

reduce the risk of aspiration. 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.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible). If exposed or concerned: Get

medical advice/attention.

**Note to Physicians:** Symptoms may not appear immediately. For inhalation of Hydrogen

Sulphide, consider oxygen.

#### Section 5: FIRE-FIGHTING MEASURES

### FLAMMABILITY AND EXPLOSION INFORMATION

Extremely flammable liquid and vapour. Flammable liquid by WHMIS criteria. Not flammable or combustible by OSHA criteria. HIGHLY FLAMMABLE: 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 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 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 precautionary measures against static discharge. This

material is sensitive to static discharge.



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**MEANS OF EXTINCTION** 

**SAFETY DATA SHEET** 

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO2, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media: Do not use straight streams. CAUTION: All these products

have a very low flash point: Use of water spray when fighting

fire may be inefficient.

**Products of Combustion:** Oxides of carbon. Oxides of sulphur.

**Protection of Firefighters:** Inhalation or contact with material may irritate or burn skin

and eyes. Fire may 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 selfcontained breathing apparatus (SCBA). Structural firefighters'

protective clothing will only provide limited protection.

#### 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.

Wear respiratory protection. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits

then an appropriate NIOSH/MSHA approved air-purifying

respirator with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Personal Precautions: Do not touch or walk through spilled material. Use personal

protection recommended in Section 8.Don full-face, positive

pressure, self-contained breathing apparatus.

**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.



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Other Information: Dispose of in accordance with all Federal, State, Provincial and

local regulations. Comply with Federal, State, Provincial, and local

requirements for spill and/or release notification.

#### **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, sparks, open flames, and hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapours, or spray. Avoid breathing mist, vapours, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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. OStore 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.

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 (1996)

**OSHA:** 500 ppm (TWA), 1800 mg/m³ (TWA); Skin.

50 ppm (TWA) [Vacated];

Pentane [CAS No. 109-66-0]

**ACGIH**: 600 ppm (TWA); (1989)

**OSHA:** 1000 ppm (TWA), 2950 mg/m³ (TWA);

600 ppm (TWA); 750 ppm (STEL) [Vacated];



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Isopentane [CAS No. 78-78-4]

**ACGIH:** 600 ppm (TWA); (1989) **OSHA:** No PEL established.

Butane [CAS No. 106-97-8]

**ACGIH:** 1000 ppm (TWA); (2001) **OSHA:** 800 ppm (TWA) [Vacated];

Benzene [CAS No. 71-43-2]

**ACGIH:** 0.5 ppm (TWA); 2.5 ppm (STEL); Skin; A1; BEI (1996)

**OSHA**: 1 ppm (TWA); 5 ppm (STEL);

Toluene [CAS No. 108-88-3]

**ACGIH:** 20 ppm (TWA); A4; BEI (2006)

OSHA: 200 ppm (TWA); 300 ppm (C); 500 ppm (Peak) (Maximum duration: 10 minutes.)

100 ppm (TWA); 150 ppm (STEL) [Vacated];

Ethylbenzene [CAS No. 100-41-4]

**ACGIH:** 20 ppm (TWA); A3; BEI (2010) **OSHA:** 100 ppm (TWA), 435 mg/m³ (TWA); 125 ppm (STEL) [Vacated];

Xylenes [CAS No. 1330-20-7]

**ACGIH:** 100 ppm (TWA); 150 ppm (STEL); A4; BEI (1992)

**OSHA:** 100 ppm (TWA), 435 mg/m³ (TWA);

150 ppm (STEL) [Vacated]

Propane [CAS No. 74-98-6]

**ACGIH:** 1000 ppm (TWA); (2001)

**OSHA:** 1000 ppm (TWA), 1800 mg/m³ (TWA)

Isobutane [CAS No. 75-28-5]

**ACGIH:** 1000 ppm (TWA); (2001)

OSHA: No PEL established.

Hydrogen sulphide [CAS No. 7783-06-4]

ACGIH: 1 ppm (TWA); 5 ppm (STEL); (2009); For Hydrogen sulfide

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]; For Hydrogen sulfide.

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 safety glasses. Ensure that eyewash stations are

close to the workstation location. Use equipment for eye protection that meets the standards referenced by 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 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 the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air

breathing apparatus must be used when oxygen

concentrations are low or if airborne concentrations exceed

the limits of the air-purifying respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices.

#### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid.

**Colour**: Colourless to straw coloured.

**Odour:** Rotten eggs. May be odourless (due to high H2S concentrations

present).

Odour Threshold: 0.00047 ppm, (H2S)

Physical State: Liquid.

pH: Not available.

Melting Point / Freezing

Point:

Not available.



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**Initial Boiling Point:** -42 °C (-43.6 °F) (Propane)

**Boiling Point:** -42 to 271 °C (-43.6 to 519.8 °F)

Flash Point:  $< -40 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F})$ 

**Evaporation Rate:** Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: 62 kPa at 26 °C (78.8 °F)

Vapor Density: Not available.

**Relative Density:** 0.6955 (Water = 1)

Solubilities: Insoluble.

Partition Coefficient: n-

Octanol/Water:

Not available.

Auto-ignition Temperature: Not available.

Decomposition

Temperature:

Not available.

Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

**Density:** 694.9 kg/m<sup>3</sup>

Coefficient of Water/Oil

Distribution:

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. Strong bases. Strong oxidizers. Chlorine.

Hazardous Decomposition Products: Hazardous sulphur dioxide, and related oxides of sulphur

may be generated upon combustion.



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#### Section 11: TOXICOLOGICAL INFORMATION

# **EFFECTS OF ACUTE EXPOSURE**

## **Product Toxicity**

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

#### **Component Toxicity**

Component Natural gas condensates (petroleum)	<b>CAS No.</b> 64741-47-5	<b>LD</b> ₅₀ <b>oral</b> Not available.	<b>LD</b> ₅₀ <b>dermal</b> Not available.	<b>LC</b> ₅₀ 600 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
Butane, 2-methyl-	78-78-4	Not available.	Not available.	Not available.
Butane	106-97-8	Not available.	Not available.	658000 mg/m³ (rat); 4H
Benzene	71-43-2	930 mg/kg (rat)	> 9400 µl/kg (rabbit)	10000 ppm (rat); 7H
Benzene, methyl-	108-88-3	600 mg/kg (rat)	14.1 mL/kg (rabbit)	49000 mg/m³ (rat); 4H
Benzene, ethyl-	100-41-4	3500 mg/kg (rat)	17800 µl/kg (rabbit)	Not available.
Benzene, dimethyl-	1330-20-7	> 1700 mg/kg (rat)	4300 mg/kg (rabbit)	5000 ppm (rat); 4H
Propane	74-98-6	Not available.	Not available.	Not available.
Propane, 2- methyl-	75-28-5	Not available.	Not available.	570000 ppm (rat); 15M
Hydrogen sulfide (H2S)	7783-06-4	Not available.	Not available.	444 ppm (rat); 4H

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

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs.

Blood. Cardiovascular system. Bone marrow. Liver. Kidneys.

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. Inhalation of Toluene may result in peculiar skin sensations (e. g. pins and needles) or numbness. Hydrogen sulphide may cause symptoms such as digestive upset



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and loss of appetite, loss of sense of smell and pulmonary edema. At 500-1000 ppm Hydrogen sulphide may cause respiratory paralysis, collapse and death without rescue.

without rescue.

Eye: Causes 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.

Skin Sensitization:Not available.Respiratory Sensitization:Not available.Medical ConditionsNot available.

Aggravated By Exposure:

**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. Cardiovascular system. Bone marrow. Spleen. Liver. Kidneys. Reproductive system. Nervous

system.

**Chronic Effects:** Hazardous by OSHA/WHMIS criteria. May cause 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. 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. 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. Reports of chronic poisoning with Benzene, Toluene, Ethylbenzene or Xylenes describe anemia, decreased blood cell count

and bone marrow hypoplasia. Liver and kidney damage may occur.

Repeated exposure of the eyes to high concentrations of Xylenes vapour may cause reversible eye damage. Chronic inhalation



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exposure to xylene causes mid-frequency hearing loss in laboratory animals. Xylene reacts synergistically with n-hexane to enhance hearing loss. Hydrogen sulphide may reduce lung function; cause neurological effects such as headaches, nausea, depression and personality changes; eye and mucous membrane irritation: 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).

**Component Carcinogenicity** 

Component Caromoge	rinoity				
Component	ÁCGIH	IARC	NTP	OSHA	Prop 65
Benzene	A1	Group 1	List 1	OSHA Carcinogen.	Listed.
Toluene	A4	Group 3	Not listed.	Not listed.	Not listed.
Ethylbenzene	A3	Group 2B	Not listed.	OSHA Carcinogen.	Listed.
Xylenes	A4	Group 3	Not listed.	Not listed.	Not listed.

**Mutagenicity:** May cause genetic defects. May cause heritable genetic damage.

**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: Possible risk of harm to the unborn child. Benzene and Xylenes have

caused adverse fetal effects in laboratory animals. Exposure to

Toluene may affect the developing fetus.

Toxicologically Synergistic 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.



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#### **Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** 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.

#### **Section 14: TRANSPORT INFORMATION**

**U.S. Department of Transportation (DOT)** 

Proper Shipping Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG I

Class: 3

UN Number: UN1268

Packing Group:

Label Code:



**Canada Transportation of Dangerous Goods (TDG)** 

Proper Shipping Name: UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG I

Class: 3

UN Number: UN1268

Packing Group:

Label Code:



#### 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**

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.



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**WHMIS Classification:** Class B2 - Flammable Liquids.

Class D1A - Very Toxic Material. \*
Class D2A - Carcinogenicity.
Class D2A - Embryotoxicity.
Class D2A - Mutagenicity.

Class D2A - Chronic toxic effects.

Class D2B - Skin irritant. Class D2B - Eye irritant.

# **Hazard Symbols:**









# **United States**

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

SARA Title I	I	I
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Component	Section 302 (EHS) TPQ (Ibs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 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
Benzene	Not listed.	Not listed.	10	313	U019	Not listed.
Toluene	Not listed.	Not listed.	1000	313	U220	Not listed.
Ethylbenzene	Not listed.	Not listed.	1000	313	Not listed.	Not listed.
Xylenes	Not listed.	Not listed.	100	313	U239	Not listed.
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Hydrogen sulphide	500	100	100	313s	U135	10000

# **State Regulations**

# Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Heptane	142-82-5	Listed.
Hexane	110-54-3	Listed.
Pentane	109-66-0	Listed.
Isopentane	78-78-4	Listed.
Butane	106-97-8	Listed.
Benzene	71-43-2	Е
Toluene	108-88-3	Listed.
Ethylbenzene	100-41-4	Listed.

<sup>\*</sup> This classification is based on the potential for release of Hydrogen sulphide.



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Xylenes	1330-20-7	Listed.
Propane	74-98-6	Listed.
Isobutane	75-28-5	Listed.
Hydrogen sulphide	7783-06-4	Е

Note: E = Extraordinarily Hazardous Substance

# **New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Heptane	142-82-5	SHHS
Hexane	110-54-3	SHHS
Pentane	109-66-0	SHHS
Isopentane	78-78-4	SHHS
Butane	106-97-8	SHHS
Benzene	71-43-2	SHHS
Toluene	108-88-3	SHHS
Ethylbenzene	100-41-4	SHHS
Xylenes	1330-20-7	SHHS
Propane	74-98-6	SHHS
Isobutane	75-28-5	SHHS
Hydrogen sulphide	7783-06-4	SHHS

**Note:** SHHS = Special Health Hazard Substance

# Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

03 Fellisylvania worker and Community Right-to-Rhow Law (34 Fa. Code Chap. 301-32)			
Component	CAS No.	RTK List	
Heptane	142-82-5	Listed.	
Hexane	110-54-3	Listed.	
Pentane	109-66-0	Listed.	
Isopentane	78-78-4	Listed.	
Butane	106-97-8	Listed.	
Benzene	71-43-2	ES	
Toluene	108-88-3	Е	
Ethylbenzene	100-41-4	E	
Xylenes	1330-20-7	E	
Propane	74-98-6	Listed.	
Isobutane	75-28-5	Listed.	
Hydrogen sulphide	7783-06-4	Е	

**Note:** E = Environmental Hazard; S = Special Hazardous Substance



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California

California Prop 65: WARNING: This product contains chemicals known to the State of

California to cause cancer, birth defects or other reproductive harm.

Component Type of Toxicity

Benzene cancer; developmental, male developmental; female

Ethylbenzene cancer

## **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 his own particular use.

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