

Date of Revision: March 15, 2022

Section 1 - Chemical Product and Company Identification

Product Name UltraSol 101

Synonyms Enhanced Condensate
Product Use Solvent, heavy oil diluent

Restriction on Use None identified Manufacturer/Supplier CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

General Assistance 1 (877) 269-3419

Emergency Telephone 613-966-6666 (CANUTEC 24 Hour Phone Number)

Date of Preparation of SDS January 1, 2018

Section 2 - Hazard Identification

Signal Word GHS Pictogram(s)









Target Organs Narcotic Effects

Hazard Statement:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 + H320 Causes skin irritation and causes eye irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long-lasting effects.

Precautionary Statement

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources.

No smoking

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.



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P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
Response	
P321	Specific Treatment: see response statements on the label
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P331	DO NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water / shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: get medical advice / attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P391	Collect spillage.
Storage	
P403 + P233	Store in well-ventilated place. Keep contained tightly closed.
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	
P501	Dispose of contents/container to an approved waste disposal unit.
GHS Classification	Flammable liquids (Category 2)
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Acute toxicity, dermal (Category 4)
Acute toxicity, inhalation (Category 4)
Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2B)

Mutagenicity (Category 1B) Carcinogenicity (Category 1B) Toxic to reproduction (Category 2)

Specific target organ toxicity - single exposure (Category 3 narcotic effects)

Specific target organ toxicity - repeated exposure (Category 2)

Aspiration hazard (Category 1)

Hazardous to the aquatic environment, acute hazard (Category 2) Hazardous to the aquatic environment, acute chronic (Category 2)

HMIS Classification

Health Hazard 2
Chronic Health Hazard *
Flammability 3
Physical Hazards 0

Potential health effects



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Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May

cause respiratory tract irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed – can enter lungs and cause damage.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Natural Gas Condensate	Not applicable	90 - 99%	8002-05-9
Naptha, petroleum, heavy catalytic reformed**	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture	0 – 10%	64741-68-0
	This product also contains		
Hexane	n-hexane, normal-Hexane; Hexyl hydride; n- Hexylhydride; n-Caproylhydride; Hexane, normale	10 – 30%	110-54-3
Heptane	n-heptane, normal-heptane, heptyl hydride	10 – 30%	142-82-5
Octane	Not appliacable	10 – 20%	111-65-9
Nonane	Not applicable	6 – 12%	108-87-2
Methylcyclopentane	Methyl cyclopentane, methylpentamethylene	5 – 10%	96-37-7
Cyclohexane	Hexamethylene; Hexahydrobenzene; Hexanaphthene	4 – 7%	110-82-7
Pentane	n-pentane; normal pentane	6 – 7%	109-66-00
Toluene	benzyl hydride; methylbenzene; phenylmethane; toluol.	0 – 15%	108-88-3
Xylene, mixed isomers	Xylenes; Xylol; methyl toluene, benzene, dimethyl-; dimethylbenzene.	0 – 35%	1330-20-7
Benzene	Benzol,	0 – 0.5%	71-43-2
1,2,4-trimethylbenzene	Pseudocumene, pseudocumol	0-1.1	25551-13-7
	This product may also contain		
Methanol	Methyl alcohol, wood alcohol, carbinol, wood spirits, methyl hydroxide, methyl hydrate	0 – 2%	67-56-1
Isopropanol	2-propanol; IPA; Isopropyl Alcohol; 1- methylethanol; 1-methylethyl alcohol; 2- hydroxypropane; i-propanol; propan-2-ol; sec- propanol.	0 – 2%	67-63-0
Methylethyl ketone	2-Butanone; Butan-2-one; Butanone; Ethyl methyl ketone; MEK; methyl acetone	0 – 2%	78-93-3
Methylisobutyl ketone		0 – 8%	108-10-1
Ethylene Glycol Monobutyl Ether	EGMBE; 2-Butoxyethanol; Glycol ether EB; Butyl cellosolve; Butyl glycol	0 – 5%	111-76-2
2-Ethylhexanol	2-Ethyl-1-hexanol, Isooctanol, Isooctyl Alcohol	0 – 2%	104-76-7



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27176-87-0

0 - 2%

Alkylbenzenesulfonic acid

Dodecylbenzene sulfonic acid,

lauralbenzenesulfonic acid

* = Various ** = Mixture *** = Proprietary

Chemical Formula mixture

Section 4 - First Aid Measures

Inhalation Move victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that vas of vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as collar, tie, belt or waistband.

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower lids. Check for and remove contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Skin Contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Get medical attention immediately. Call a poison control centre or physician.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as collar, tie, belt or waistband.

Most Important Symptoms/Effects

Acute

Eye contact Causes eye irritation.

Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact No known significant effects or critical hazards.

Ingestion Can cause central nervous system (CNS) depression.

Delayed

Eye contact No specific data.

Inhalation Adverse symptoms may include the following:, nausea or vomiting, headache,

drowsiness/fatigue, dizziness/vertigo, unconsciousness, reduced fetal weight,

increase in fetal deaths, skeletal malformations

Skin contact Adverse symptoms may include the following:, reduced fetal weight, increase in

fetal deaths, skeletal malformations

Ingestion Adverse symptoms may include the following:, reduced fetal weight, increase in

fetal deaths, skeletal malformations

Note to Physician Treat symptomatically.



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Section 5 – Fire-Fighting Measures

Conditions of Flammability Flammable in the presence of a source of ignition when the temperature is above

the flash point. Keep away from heat/sparks/open flame/ hot surface.

Extinguishing Media Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguising Media Do not use water jet.

Unusual Fire/

Explosion Hazard No data available.

Hazardous Combustion

Products Carbon oxides

Fire Fighting Equipment Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.

Section 6 – Accidental Release Measures

Personal precautionsUse personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Stop leak if without risk. Move containers from spill area. Use spark-proof tools

and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

contractor.

Section 7 - Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build-up of

electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Incompatible Conditions Heat, flames and sparks.

Incompatible Materials Oxidizing materials, strong acids.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits

Hexanes Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 50ppm

Heptane Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 400ppm



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Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Octane

TWA: 300ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) **Nonanes**

TWA: 200ppm

Methylcyclopentane Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

None established

ACGIH TLV (USA, 4/2014). TWA: 500ppm 8 Hours, 1760 mg/m³ 8 Hours

STEL: 1000 ppm 15 minutes, 1050 mg/m³ 15 minutes

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Cyclohexane

TWA: 100ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Pentane

TWA: 600ppm

Toluene Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 50ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 100ppm Xylene, mixed isomers

STEL: 150ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

Benzene TWA: 0.5ppm, 1.6mg/m³

Ceiling: 2.5ppm, 8mg/m³

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) 1,2,4-trimethylbenzene

TWA: 25ppm

Methanol Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

> TWA: 200ppm STEL: 250ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

Isopropanol STEL: 400ppm

TWA: 200ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 200ppm Methylethyl ketone

Ceiling: 300ppm (15 min)

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Methylisobutyl ketone

TWA: 50ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Ethylene Glycol Monobutyl Ether

TWA: 20ppm

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) 2-Ethylhexanol

None established

Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) Alkylbenzenesulfonic acid

None established

Personal protective equipment

Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals.

Skin protection Wear chemical resistant gloves, impermeable protective clothing and safety

Respiratory protection

General hygiene

Use NIOSH approved respirators and components.

Considerations Handle in accordance with good industrial hygiene and safety.

Specific engineering controls Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety

shower, eye wash, and fire extinguisher should be present.



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>400°C

Section 9 – Physical and Chemical Properties

Physical State Liquid **Water Solubility** Insoluble Appearance & Odour Clear colourless to pale **Boiling Point** 52.5°C

brown liquid with distinct hydrocarbon odour.

Vapour Pressure Varies with feedstock. **Boiling Range** 52.5°C - 350°C

Odour Threshold Melting Point Not available <-40°C **Evaporation Rate** Not available **Freezing Point** <-40°C Vapour Density >1 (Air = 1) **Lower Explosive Limit (LEL)** 0.6% **Specific Gravity** 0.68 - 0.85**Upper Explosive Limit** 15%

(UEL)

Partition coefficient (nрΗ Not available Not available

octonal/water)

Flammability (Solid, Gas) Not available

Decomposition

Not available **Temperature**

Viscosity Not available

Flash Point -8° (PMCC) **Auto-ignition temperature**

Section 10 - Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

Under normal conditions of storage and use, hazardous reactions will not occur

reactions

Conditions to avoid Heat, flames and sparks.

Materials to avoid Oxidizing materials, strong acids.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon

oxides, Nitrogen oxides, sulfur oxides.

Other decomposition products – May release carbon oxides, aldehydes, ketones,

reactive hydrocarbons, smoke and irritating vapors when heated to

decomposition.

Section 11- Toxicological Information

Information on Likely Routes of Exposure

No data available

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Hexanes	LC50 Inhalation gas	Rat	48000ppm	4 Hr
	LD50 Oral	Rat	15840mg/kg	-
Heptane	LD50 Dermal	Rabbit	>2000mg/kg	-
·	LD50 Oral	Rat	>5000mg/kg	-
Octane	LC50 Inhalation gas	Rat	25260ppm	4 Hr



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Nonanes	LD50 Oral LC50 Inhalation gas	Rat Rat	15g/kg 3200ppm	- 4 Hr
Methylcyclopentane	LD50 Oral	Rat	5 – 15g/kg	-
, , .	LC50 Inhalation gas	Mouse	95000 – 120000ppm	4 Hr
Cyclohexane	LC50 Inhalation gas	Mouse	70000mg/m ³	2 Hr
-,	LD50 Oral	Rat	>5000mg/kg	-
Pentane	LD50 Oral	Rat	> 5000g/kg	-
Toluene	LC50 Inhalation gas	Rat	>20mg/L	4 Hr
	LD50 Oral	Rat	5580mg/kg	-
	LD50 Dermal	Rabbit	12223mg/kg	-
	LC50 Inhalation gas	Rat	6350ppm	4 Hr
Xylene, mixed isomers	LD50 Oral	Rat	3253mg/kg	-
•	LD50 Dermal	Rabbit	12126mg/kg	24 Hr
	LC50 Inhalation gas	Rat	13700ppm	4 H4
Benzene	LD50 Oral	Rat	4920mg/kg	-
	LD50 Dermal	Rabbit	>8240mg/kg	-
	LC50 Inhalation gas	Rat	18000mg/m ³	4 Hr
1,2,4-trimethylbenzene	LD50 Oral	Rat	50000mg/kg	-
Methanol	LC50 Inhalation, vapour	Rat	128.2mg/L	4 Hr
	LD50 Oral	Rat	1187-2769mg/kg	-
	LD50 Dermal	Rabbit	17100mg/kg	-
	LC50 Inhalation gas	Rat	73mg/L	4 Hr
Isopropanol	LD50 Oral	Rat	5045mg/kg	-
	LD50 Dermal	Rabbit	12870mg/kg	-
N. 4 a the clather disease a	LD50 Oral	Rat	2737mg/kg	-
Methylethyl ketone	LC50 Inhalation gas	Mouse	32000ppm	4 Hr
Mathylicabutul katana	LD50 Oral	Guinea Pig	1600mg/kg	-
Methylisobutyl ketone	LC50 Inhalation gas	Rat	8000ppm	4 Hr
Ethylene Glycol Monobutyl	LD50 Oral	Rat	3730mg/kg	-
Ether	LD50 Dermal	Rat	>3000mg/kg	-
2. Exhaulta accept	LD50 Oral	Rat	3370mg/kg	-
2-Ethylhexanol	LD50 Dermal	Rat	>3000mg/kg	-
Alkylbenzenesulfonic acid	LD50 Oral	Rat	438mg/kg	-

Skin corrosion/irritation Causes skin and eye irritation.

Respiratory or skin sensitization

No data available

Mutagenicity Xylene and Toluene have been investigated as mutagens. There has been some evidence

of chromosomal changes in workers exposed to benzene.

Carcinogenicity Components are suspected of causing cancer.

IARC:

Benzene 1 Carcinogenic to Humans

Ethylbenzene 2B Possibly carcinogenic to Humans

Reproductive toxicity
Not available
Teratogenicity
Not available
Specific target organ toxicity - single exposure

This product is not reported to have any specific target organ general toxicity

single exposure effects.

Specific target organ toxicity - repeated exposure

Causes damage to organs (liver, kidneys, blood, nervous system and skin) through

prolonged or repeated exposure.



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Aspiration hazard Aspiration may result in chemical pneumonia, severe lung damage, respiratory

failure and even death.

Signs and Symptoms of Exposure

Inhalation Adverse symptoms may include: nausea and vomiting, headache, drowsiness/fatigue,

dizziness/vertigo and unconsciousness

Ingestion Adverse symptoms may include: nausea and vomitingSkin Adverse symptoms may include: irritation, redness

Eyes Adverse symptoms may include: pain or irritation, watering, redness

Synergistic effects No data available

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects

Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May

cause respiratory tract irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed – can enter lungs and cause damage.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Potential Delayed Health Effects No data available.

Long Term Exposure

Potential immediate Health Effects
No data available.
Potential Delayed Health Effects
No data available.
Potential Chronic Effects
No data available.

Section 12 – Ecological Information

Toxicity

Product / Ingredient Name	Result	Species	Exposure
Toluene	Acute LC50 24mg/L	Fish – Onchohynchus mykiss	96 Hr
	Acute EC50 84mg/L	Daphnia – Daphnia magna	24 Hr
	Acute LC50 13mg/L	Fish – Lepomis macrochirus	96 Hr
Xylene (o, m, p isomers)	Acute LC50 13.1 - 16.5mg/L	Fish – Lepomis macrochirus	96 Hr
	Acute LC50 13.5 – 17.3mg/L	Fish – Oncorhynchus mykiss	96 Hr
Hexanes	Acute LC50 2500μg/L Fresh Water	Fish – Pimephales promelas	96 Hr
Benzene			
Ethylbenzene	Acute LC50 4mg/L	Fish – Oncorhynchus mykiss	96 Hr
	Acute EC50 1 – 4mg/L	Daphnia – Daphnia magna	48 Hr
1,2,4-trimethylbenzene	Acute LC50 10.7 -14.7mgL	Fish – Pimephales promelas	96 Hr

Persistence and degradability

Biodegradability No data available

Bioaccumulative potential

Product/Ingredient NameLogPowBCFPotentialn-hexane4502High

Mobility in soilNo data availablePBT and vPvB assessmentNo data available

Other adverse effects No known significant effects or critical hazards.



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Section 13 – Disposal Considerations

Product This combustible material may be burned in a chemical incinerator equipped with

an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated packaging Dispose of as unused product.

Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

Shipping Name UN1268, PETROLEUM DISTILLATES, N.O.S. (condensate), 3. PG II

Class 3

UN Number UN1268

Packaging Group

Label



Environmental hazards

Transportation in bulk,

if applicableNo data availableSpecial PrecautionsNo data available

Reportable Quantity 12345.7 lbs / 5604.9Kg [2177.5 gal / 8242.6L] Package sizes shipped in quantities

less than the product reportable quantity are not subject to the RW

transportation requirements.

Not a marine pollutant.

Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List)

and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory (8b) All components are listed or exempted.

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

Section 16 - Other Information

REVISION SUMMARY:

Date of Preparation January 1, 2018
Date of Revision March 15, 2022



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SDS Prepared by: CFR Lab Manager

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