

Section 1 - Chemical Product and Company Identification

Product Name	UltraSol 55
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 10, 2020

Section 2 – Hazard Identification

Signal Word Danger
GHS Pictogram(s)



Target Organs Peripheral nervous system, Kidney, Testes.

Hazard Statement:

H225	Highly flammable liquid and vapour.
H315 + H320	Causes skin irritation and causes eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed or inhaled.

Precautionary Statement

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.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.

Response

P321	Specific treatment: See Response Statements on this label.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.



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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	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
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) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2B) Specific target organ toxicity - repeated exposure: Oral (Category 2) Specific target organ toxicity - repeated exposure: Inhalation (Category 2)
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HMIS Classification

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

Potential 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.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Natural Gas Condensate	Not available	90 - 99%	8002-05-9
Heavy Catalytic Reformed Naptha (petroleum)	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture	0 – 5%	64741-68-0
This product may also contain			
Toluene	benzyl hydride; methylbenzene; phenylmethane; toluol.	0-10	108-88-3
Xylene, mixed isomers	Xylenes; Xylol; methyl toluene, benzene, dimethyl-; dimethylbenzene.	0-10	1330-20-7
Hexanes	n-hexane, normal-Hexane; Hexyl hydride; n-Hexylhydride; n-Caproylhydride; Hexane, normale	0-5	100-54-3

Benzene	Benzol,	0-5	71-43-2
Ethylbenzene	Ethylbenzol; Phenylethane: alpha-Methyltoluene	0-1	100-41-4
1,2,4-trimethylbenzene	Pseudocumene, pseudocumol	0-1.1	25551-13-7

* = 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 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 shoes. 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.

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 Extinguishing Media	Do not use water jet.
Unusual Fire/	
Explosion Hazard	No data available.
Hazardous Combustion Products	Carbon oxides, Nitrogen oxides, sulfur oxides, dense smoke and particulate matter.
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 precautions	Use 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

Toluene	<p>Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) TWA: 50ppm</p> <p>ACGIH TLV TWA: 20ppm STEL: 20ppm</p> <p>OSHA PEL TWA: 200 ppm STEL: 500 ppm</p>
Xylene (o, m, p isomers)	<p>Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) TWA: 100ppm STEL: 150ppm</p>
Hexanes	<p>Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) TWA: 50ppm</p>
Benzene	<p>Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) TWA: 0.5ppm, 1.6mg/m³ Ceiling: 2.5ppm, 8mg/m³</p>
Ethylbenzene	<p>ACGIH TWA: 20ppm 8 Hours STEL: 10000 ppm 15 minutes</p> <p>OSHA PEL TWA: 100 ppm TWA: 435 mg/m³</p>
1,2,4-trimethylbenzene	<p>Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL) TWA: 25ppm</p>

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 shoes.

Respiratory protection

Use NIOSH approved respirators and components.

General hygiene

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.

Section 9 – Physical and Chemical Properties

Physical State	Liquid	Water Solubility	Insoluble
Appearance & Odour	Clear colourless to pale brown liquid with distinct hydrocarbon odour.	Boiling Point	52.5°C
Vapour Pressure	Varies with feedstock.	Boiling Range	52.5°C – 100°C
Odour Threshold	Not available	Melting Point	<-40°C
Evaporation Rate	Not available	Freezing Point	<-40°C
Vapour Density	>1 (Air = 1)	Lower Explosive Limit (LEL)	Not available
Specific Gravity	0.74 – 0.765	Upper Explosive Limit (UEL)	Not available
pH	Not available	Partition coefficient (n-octanol/water)	Not available
Flammability (Solid, Gas)	Not available	Viscosity	Not available
Decomposition Temperature	Not available	Auto-ignition temperature	>400°C
Flash Point	-5° (PMCC)		

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 reactions	Under normal conditions of storage and use, hazardous reactions will not occur
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
Toluene	LC50 Inhalation gas	Rat	>20mg/L	4 Hr
	LD50 Oral	Rat	5580mg/kg	-
	LD50 Dermal	Rabbit	12223mg/kg	-
Xylene (o, m, p isomers)	LC50 Inhalation gas	Rat	6350ppm	4 Hr
	LD50 Oral	Rat	3253mg/kg	-
	LD50 Dermal	Rabbit	12126mg/kg	24 Hr
Hexanes	LC50 Inhalation gas	Rat	48000ppm	4 Hr
	LD50 Oral	Rat	15840mg/kg	-
	LC50 Inhalation gas	Rat	13700ppm	4 H4
Benzene	LD50 Oral	Rat	4920mg/kg	-
	LD50 Dermal	Rabbit	>8240mg/kg	-
Ethylbenzene	LD50 Oral	Rat	5.46g/kg	-
	LD50 Dermal	Rabbit	>5000mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation gas	Rat	18000mg/m ³	4 Hr
	LD50 Oral	Rat	50000mg/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



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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.
Aspiration hazard	Aspiration may result in chemical pneumonia, severe lung damage, respiratory failure and even death.
Potential 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.

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 vomiting
Skin	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	No data available.
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

1,2,4-trimethylbenzene	Acute EC50 1 – 4mg/L	Daphnia – Daphnia magna	48 Hr
Persistence and degradability	Acute LC50 10.7 -14.7mg/L	Fish – Pimephales promelas	96 Hr
Biodegradability	No data available		
Bioaccumulative potential			
Product/Ingredient Name	LogP_{ow}	BCF	Potential
n-hexane	4	502	High
Mobility in soil	No data available		
PBT and vPvB assessment	No data available		
Other adverse effects	No known significant effects or critical hazards.		

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	II
Label	



Environmental hazards	Not a marine pollutant.
Transportation in bulk, if applicable	No data available
Special Precautions	No 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.

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.



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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 10, 2020
Date of Revision	January 10, 2020

SDS Prepared by: CFR Lab Manager

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