

### Section 1 - Chemical Product and Company Identification

<b>Product Name</b>	C-Sol
<b>Synonyms</b>	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture
<b>Product Use</b>	Hydrocarbon solvent
<b>Restriction on Use</b>	None identified
<b>Supplier</b>	CFR Chemicals 38451 Range Road 22 County of Red Deer T4E 2N6
<b>General Assistance</b>	1 (877) 269-3419
<b>Emergency Telephone</b>	<b>613-966-6666 (CANUTEC 24 Hour Phone Number)</b>
<b>Date of Preparation of SDS</b>	April 1, 2017

### Section 2 – Hazard Identification

**Signal Word**  
**GHS Pictogram(s)**

Danger



**Target Organs**

Narcotic Effects

**Hazard Statement:**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin 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.

**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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.



# Safety Data Sheet - GHS

## C-Sol

Date of Revision: March 15, 2022

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 CENTRE / DOCTOR.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	If exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P331	DO NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash 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 container 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.

<b>GHS Classification</b>	Flammable liquids (Category 3) Skin corrosion/irritation (Category 2) Mutagenicity (Category 1B) Carcinogenicity (Category 1B) Reproductive Toxicity (Category 2) Specific target organ toxicity - single exposure (Category 3) Aspiration hazard (Category 1)
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<b>HMIS Classification</b>	
Health Hazard	2
Chronic Health Hazard	*
Flammability	3
Physical Hazards	0

<b>Potential Health Effects</b>	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Causes skin irritation. May be harmful if absorbed through skin.
Eye	Causes eye irritation.
Ingestion	May be harmful if swallowed.

### Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Naptha, petroleum, heavy catalytic reformed**	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture	100%	64741-68-0

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

**Chemical Formula**

not applicable

### 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

May cause drowsiness or dizziness. Respiratory tract irritation. Causes skin irritation. May cause eye irritation. May be fatal if swallowed and enters airways. Ingestion is likely to be harmful or have adverse effects.

Delayed

Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood and nervous system. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage. May cause cancer.

**Note to Physician**

Treat symptomatically.

### Section 5 – Fire-Fighting Measures

**Flash Point (°C)**

46.1°C

**Flash Point Method**

PMCC

**Auto Ignition Temperature**

No data available.

**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. No smoking.

**Extinguishing Media**

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

**Unsuitable Extinguishing****Media**

Water streams. Heavy water stream may spread fire.

**Unusual Fire/****Explosion Hazard**

May form flammable/explosive vapour-air mixtures.

**Hazardous Combustion****Products**

Carbon oxides.

**Special Protective Equipment and****Precautions for Firefighters**

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 appropriate 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**

Contain free liquid if possible with dikes or absorbents to prevent migration and entry into sewers or streams. Pick up by covering with an activated carbon absorbent or other suitable inert absorbent material (e.g. sand, general-purpose binder). Take up &amp; place in closed containers. Ventilate area &amp; wash spill site after material pickup is complete. Do not take up in combustible material such as sawdust or cellulosic material. Contact competent authorities after a spill.

### Section 7 – Handling and Storage

**Precautions for safe handling**

Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Use non-sparking tools. Do not breathe vapours, mist, or spray.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Store away from ignition sources, direct sunlight, incompatible materials. Store locked up. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment.

**Incompatible Conditions**

Heat, flames and sparks.

**Incompatible Materials**

Strong acids. Strong bases. Strong oxidizers.

### Section 8 – Exposure Controls / Personal Protection

**Occupational Exposure Limits**

No Occupation Exposure Limits have been established for this product or its chemical components.

**Personal protective equipment**

<b>Eye/face protection</b>	Chemical safety glasses with side shields to prevent eye contact. As a general rule do not wear contact lenses when handling chemicals.
<b>Skin protection</b>	Wear chemical resistant gloves, impermeable / chemical resistant protective clothing and safety shoes.
<b>Respiratory protection</b>	Wear respiratory protection in case of insufficient ventilation.
<b>General hygiene</b>	
<b>Considerations</b>	Handle in accordance with good industrial hygiene and safety.
<b>Specific engineering controls</b>	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Alarm detectors should be used when toxic gases may be released. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours are released. Ensure adequate ventilation, especially in confined areas.

## Section 9 – Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Water Solubility</b>	Insoluble
<b>Appearance &amp; Odour</b>	Clear, straw colour. Aromatic.	<b>Boiling Point</b>	160°C
<b>Vapour Pressure</b>	<1 mm Hg (20°C)	<b>Boiling Range</b>	160 – 246.5°C
<b>Odour Threshold</b>	No data available	<b>Melting Point</b>	No data available
<b>Evaporation Rate</b>	No data available	<b>Freezing Point</b>	No data available
<b>Vapour Density</b>	4.1	<b>Lower Explosive Limit (LEL)</b>	No data available
<b>Specific Gravity</b>	0.88	<b>Upper Explosive Limit (UEL)</b>	No data available
<b>Relative Density</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>pH</b>	No data available	<b>Autoignition Temperature (°C)</b>	No data available
<b>Flash Point (°C)</b>	46.1	<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available	<b>Viscosity</b>	No data available

## Section 10 – Stability and Reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions. May form flammable/explosive vapour-air mixture. Flammable liquid and vapor.
<b>Possibility of hazardous reactions</b>	
	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks. Direct sunlight. Incompatible materials.
<b>Materials to avoid</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides. May release flammable gases. Other decomposition products - No data available

### Section 11- Toxicological Information

#### Information on Likely Routes of Exposure

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation. May be fatal if swallowed and enters airways.
<b>Skin</b>	Causes skin irritation. May be harmful if absorbed through skin.
<b>Eye</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Acute and Chronic Toxicity</b>	No data available

#### Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Naptha, petroleum heavy catalytic reformed	LC50 Inhalation gas	Rat	>5.04mg/L	4 Hr
	LD50 Dermal	Rabbit	>2000mg/kg	24 Hr

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation**

Not classified.

**Respiratory or skin sensitization**

Not classified.

**Mutagenicity**

May cause genetic defects.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

Not assigned.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**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.

**Synergistic effects** No data available

### Section 12 – Ecological Information

#### Toxicity

Product / Ingredient Name	Result	Species	Exposure
Naptha, petroleum heavy catalytic	Acute EC50 –	Pseudokirchneriella	72 Hr

reformed	11mg/L	subcaptata
<b>Persistence and degradability</b>	Biodegradability May cause long-term adverse effects in the environment.	
<b>Bioaccumulative potential</b>		
<b>Product/Ingredient Name</b>	<b>LogP<sub>ow</sub></b>	<b>BCF</b>
Naptha, petroleum heavy catalytic reformed	Not available	Not available
<b>Mobility in soil</b>	No data available	<b>PBT and vPvB assessment</b> No data available
<b>Other adverse effects</b>	None known.	

### Section 13 – Disposal Considerations

<b>Product</b>	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.
<b>Contaminated packaging</b>	Dispose of as unused product.

### Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

<b>Shipping Name</b>	UN1268, Petroleum Distillates, N.O.S., 3. PG III
<b>Class</b>	3
<b>UN Number</b>	UN1268
<b>Packaging Group:</b>	III
<b>Label</b>	



<b>Reportable Quantity</b>	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.
<b>Environmental hazards</b>	Marine Pollutant
<b>Transportation in bulk, if applicable</b>	No data available
<b>Special Precautions</b>	No data available

### 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** Listed



# Safety Data Sheet - GHS

## C-Sol

Date of Revision: March 15, 2022

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	April 1, 2017
Date of Revision	March 15, 2022

SDS Prepared by: CFR Lab Manager

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