

Section 1 - Chemical Product and Company Identification

Product Name	C-Sol
Synonyms	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture
Product Use	Hydrocarbon solvent
Restriction on Use	None identified
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	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.



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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.

GHS Classification	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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HMIS Classification	
Health Hazard	2
Chronic Health Hazard	*
Flammability	3
Physical Hazards	0

Potential Health Effects	
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 & place in closed containers. Ventilate area & 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

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 / chemical resistant protective clothing and safety shoes.
Respiratory protection	Wear respiratory protection in case of insufficient ventilation.
General hygiene	
Considerations	Handle in accordance with good industrial hygiene and safety.
Specific engineering controls	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

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

Section 10 – Stability and Reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical stability	Stable under recommended storage conditions. May form flammable/explosive vapour-air mixture. Flammable liquid and vapor.
Possibility of hazardous reactions	
	Hazardous polymerization will not occur.
Conditions to avoid	Heat, flames and sparks. Direct sunlight. Incompatible materials.
Materials to avoid	Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products	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

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. May be fatal if swallowed and enters airways.
Skin	Causes skin irritation. May be harmful if absorbed through skin.
Eye	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Acute and Chronic Toxicity	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
Persistence and degradability	Biodegradability May cause long-term adverse effects in the environment.	
Bioaccumulative potential		
Product/Ingredient Name	LogP_{ow}	BCF
Naptha, petroleum heavy catalytic reformed	Not available	Not available
Mobility in soil	No data available	PBT and vPvB assessment No data available
Other adverse effects	None known.	

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., 3. PG III
Class	3
UN Number	UN1268
Packaging Group:	III
Label	



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.
Environmental hazards	Marine Pollutant
Transportation in bulk, if applicable	No data available
Special Precautions	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
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Date of Revision: April 1, 2025

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	April 1, 2025

SDS Prepared by: CFR Lab Manager

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