

Section 1 - Chemical Product and Company Identification

Product Name	CFR UWC 309
Synonyms	Crystal Modifier 309, CMD 309, CFR UWC-309
Product Use	Paraffin Crystal Modifier
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	April 1, 2017

Section 2 – Hazard Identification

Signal Word Danger
GHS Pictogram(s)



Target Organs Narcotic Effects

Hazard Statement:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315 + H319	Causes skin irritation and causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.

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.
P270	Do not eat, drink or smoke when using this product.



Safety Data Sheet - GHS

CFR UWC 309

Date of Revision: March 15, 2022

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.
P330	Rinse mouth.
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.
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 3) Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Acute toxicity, inhalation (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A) Carcinogenicity (Category 2) Specific target organ toxicity - single exposure (Category 3 narcotic effects) Aspiration hazard (Category 1) Hazardous to the aquatic environment, acute hazard (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.
Ingestion	Aspiration hazard if swallowed – can enter lungs and cause damage.
Skin	Causes skin irritation.
Eyes	Causes serious eye irritation.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Xylene (o, m, p isomers)	Xylenes, xylol	40 – 60%	1330-20-7
Ethylene Glycol Monobutyl Ether	EGMBE, 2-butoxyethanol Butyl Cellosolve, butyl glycol, butyl monoether glycol	15– 25%	111-76-2
Monoisopropylamine Sulfonate	None	1 – 10%	26264-05-1
Dodecylbenzenesulphonic acid	DDBSA, alkylbenzenesulfonic acid	1 – 10%	27176-87-0
Alkylphenol	None	1 – 5%	Not determined
Ethylbenzene	Ethylbenzol, phenylethane	1 – 5%	100-41-4
1,2,4-Trimethylbenzene	Pseudocumene, asymmetrical trimethylbenzene	1 – 5%	95-63-6
Chemical Formula	* = Various ** = Mixture *** = Proprietary 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

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.
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

Flash Point (°C)	33°C
Flash Point Method	PMCC
Auto Ignition Temperature	Not 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.
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 reducing agents.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name	Exposure Limits
Xylene (o, m, p isomers)	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL) TWA: 100ppm, 435 mg/m ³ 8 Hours STEL: 150ppm, 651 mg/m ³ 15 minutes
Ethylene Glycol Monobutyl Ether	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL) TWA: 20ppm ACGIH TLV TWA: 20ppm Not Established
Alkylphenol	Not Established
Ethylbenzene	ACGIH TWA: 20ppm 8 Hours STEL: 10000 ppm 15 minutes OSHA PEL TWA: 100 ppm, 435 mg/m ³
1,2,4-Trimethylbenzene	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL) TWA: 25ppm Not Established
Monoisopropylamine Sulfonate	Not Established
Dodecylbenzenesulphonic acid	Canada, Alberta OHSC Code Not listed ACGIH TLV TLV: 200ppm

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
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Appearance & Odour	Clear, dark brown liquid. Aromatic odour.	Boiling Point	Not available
Vapour Pressure	Not available	Boiling Range	Not available
Odour Threshold	Not available	Melting Point	0°C
Evaporation Rate	Not available	Freezing Point	0°C
Vapour Density	No data available	Lower Explosive Limit (LEL)	Not available
Specific Gravity	0.88 – 0.92	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	Not available
Flash Point	33° (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 reducing agents.
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
Xylene (o, m, p isomers)	LC50 Inhalation gas	Rat	6350ppm	4 Hr
	LD50 Oral	Rat	3253mg/kg	-
	LD50 Dermal	Rabbit	12126mg/kg	24 Hr
Ethylene Glycol Monobutyl Ether	LD50 Oral	Rat	3730mg/kg	-
	LD50 Dermal	Rat	>3000mg/kg	-
Alkylphenol	LD50 Oral	Rat	>5000mg/kg	-
	LD 50 Dermal	Rabbit	>5000mg/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	-



Safety Data Sheet - GHS

CFR UWC 309

Date of Revision: March 15, 2022

Monoisopropylamine Sulfonate	Not determined			
Dodecylbenzenesulphonic acid	LD50 Oral	Rat	650mg/kg	-
Skin corrosion/irritation	Causes skin irritation.			
Eye corrotion/irritation	Causes eye irritation.			
Respiratory or skin sensitization	No data available			
Mutagenicity	Xylene has been investigated as a mutagen. There has been some evidence of chromosomal changes in workers exposed to benzene.			
Carcinogenicity	Suspected of causing cancer.			
IARC:				
Ethylbenzene	2B Possibly carcinogenic to humans			
Xylene (o, m, p isomers)	3 Not classifiable as to carcinogenicity in humans			
Reproductive toxicity	Suspected of damaging fertility if inhaled.			
Teratogenicity	No known significant effects or critical hazards.			
Specific target organ toxicity - single exposure (Globally Harmonized System)	May cause drowsiness or dizziness, or other narcotic effects.			
Specific target organ toxicity - repeated exposure (Globally Harmonized System)	Not assigned.			
Aspiration hazard	May be fatal if swallowed and enters airways.			
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				
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.			
Ingestion	Aspiration hazard if swallowed – can enter lungs and cause damage.			
Skin	Causes skin irritation.			
Eyes	Causes serious 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 No data available



Safety Data Sheet - GHS

CFR UWC 309

Date of Revision: March 15, 2022

Persistence and degradability

Biodegradability	No data available
Bioaccumulative potential	No data available
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	UN2924, Flammable Liquid, Corrosive, N.O.S. (Xylene), 3 (8). PG II
Class	3 (8)
UN Number	UN2924
Packaging Group:	II

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	April 1, 2017
Date of Revision	March 15, 2022

SDS Prepared by: CFR Lab Manager

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Safety Data Sheet - GHS

CFR UWC 309

Date of Revision: March 15, 2022

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