

Section 1 - Chemical Product and Company Identification

Product Name	CMS-100
Synonyms	Mineral Spirits; Stoddard Solvent; Distillates (petroleum), hydrotreated light
Product Use	Solvent
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)



Hazard Statement:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315 + H320	Causes skin irritation and causes eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

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.
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.
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.

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.
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.
P337 + P313	if eye irritation persists: 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
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 – Inhalation (Category 4)
	Skin corrosion/irritation (Category 2)
	Serious eye damage/eye irritation (Category 2B)
	Specific target organ toxicity - single exposure (Narcotic Effects) (Category 3)
	Aspiration hazard (Category 1)

HMIS Classification	
Health Hazard	1
Chronic Health Hazard	*
Flammability	2
Physical Hazards	0

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
C9-C15 Cycloalkanes	Not applicable	30– 60%	**
C9-C15 Alkanes	Not applicable	15 – 40%	**
C9-C15 Aromatics	Not applicable	10 – 30%	**
Trimethylbenzene, all isomers	pseudocumene	1 – 5%	2551-13-7
C7 – C8 Aromatics	Not applicable	1 – 5%	**
Cumene	Isopropylbenzene, 2-phenylpropane	<1%	98-82-8
Ethylbenzene	Ethylbenzol; Phenylethane: alpha-Methyltoluene	<0.2%	100-41-4

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

Chemical Formula mixture

Section 4 - First Aid Measures

Inhalation	Immediately move person to fresh air. If it is suspected that vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, or 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	Aspiration hazard. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	Causes skin irritation.
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: redness, edema, drying defatting and cracking of the skin
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)	45°C
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Flash Point Method	PMCC
Auto Ignition Temperature	230°C
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
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.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits	
Ingredient Name	Exposure Limits
Distillates (petroleum), hydrotreated light	ACGIH TLV 200mg/m ³
Trimethylbenzene, all isomers	ACGIH TWA: 25ppm
Xylene (o, m, p isomers)	ACGIH TLV TWA: 100ppm STEL: 150ppm

Ethylbenzene

OSHA PEL

TWA: 100 ppm
TWA: 435 mg/m³

ACGIH

TWA: 20ppm 8 Hours
STEL: 10000 ppm 15 minutes

OSHA PEL

TWA: 100 ppm
TWA: 435 mg/m³

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. Hydrocarbon solvent odour.	Boiling Point	Not applicable
Vapour Pressure	0.22 mmHg (20.0°C)	Boiling Range	157 – 208°C
Odour Threshold	Not available	Melting Point	<-40°C
Evaporation Rate	Not available	Freezing Point	<-40°C
Vapour Density	5.4 (Air = 1)	Lower Explosive Limit (LEL)	Not available
Specific Gravity	0.76 – 0.79	Upper Explosive Limit (UEL)	Not available
pH	Not available	Partition coefficient (n-octonal/water)	Not available
Flammability (Solid, Gas)	Not available	Viscosity	Not available
Decomposition Temperature	Not available		

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.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Other decomposition products - No data available

Section 11- Toxicological Information

Information on Likely Routes of Exposure

No data available

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light	Not Available			
Trimethylbenzene, all isomers	Not Available			
Xylene (o, m, p isomers)	LC50 Inhalation gas	Rat	6350ppm	4 Hr
	LD50 Oral	Rat	3253mg/kg	-
	LD50 Dermal	Rabbit	12126mg/kg	24 Hr
Ethylbenzene	LD50 Oral	Rat	5.46g/kg	-
	LD50 Dermal	Rabbit	>5000mg/kg	-
Cumene	LC50 Inhalation gas	Rat	3577ppm	4Hr
	LD50 Oral	Rat	1400mg/kg	-
	LD50 Dermal	Rabbit	12300µL/kg	-

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

No data available

Mutagenicity

No data available

Carcinogenicity

IARC:

Ethylbenzene 2B Possibly carcinogenic to humans

Cumene 2B Possibly carcinogenic to humans

Reproductive toxicity

No data available

Teratogenicity

No data available

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.

Potential health effects

Inhalation May cause drowsiness and dizziness.

Ingestion May be fatal if swallowed and enters airways. Irritating to mouth, throat, and stomach.

Skin May be harmful if absorbed through skin. Causes 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
Distillates (petroleum), hydrotreated light	LC50 2500µg/L	Fish – Pimephales promelas	96 Hr
Trimethylbenzene, all isomers	EC50 1.5mg/L	Daphnia – Daphnia magna	48 Hr
	LC50 4mg/L	Fish – Carassius auratus	24 Hr
Ethylbenzene	LC50 4mg/L	Fish – Oncorhynchus mykiss	96 Hr
	EC50 1 – 4mg/L	Daphnia – Daphnia magna	48 Hr
Xylene (o, m, p isomers)	LC50 13.1 - 16.5mg/L	Fish – Lepomis macrochirus	96 Hr
	LC50 13.5 – 17.3mg/L	Fish – Oncorhynchus mykiss	96 Hr
Cumene	LC50 4.8mg/L	Fish – Oncorhynchus mykiss	96 Hr
	LC50 2.14mg/L	Daphnia – Daphnia magna	48 Hr

Persistence and degradability

Biodegradability No data available

Bioaccumulative potential

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Distillates (petroleum), hydrotreated light	Not available	Not available	Not available
Trimethylbenzene, all isomers	Not available	Not available	Not available
Ethylbenzene	3.15	Not available	Not available
Xylene (o, m, p isomers)	3.2	Not available	Not available
Cumene	Not available	Not available	Not 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	UN1268, PETROLEUM DISTILLATES, N.O.S. (Naphtha Solvent), 3. PG III
Class	3
UN Number	UN1268
Packaging Group:	III
Label	



Environmental hazards	Not a 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 (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



Safety Data Sheet - GHS

CMS-100

Date of Revision: March 15, 2022

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