

# Prairie Mul 1019

## 1. Product and Company Identification

Material name Prairie Mul 1019  
Version # 01  
Issue date January-29-2016  
Product Code 1019  
Product use Emulsifier

Supplier information Prairie Mud Service  
Suite 710, 815-8th Avenue SW  
Calgary, AB T2P 3P2  
Tel: 1-403-237-7323 (For Product and Emergency Information)

## 2. Hazards Identification

Emergency overview CAUTION  
Potential health effects May cause irritation to the eyes, skin, and respiratory system. May be harmful if absorbed through skin. May cause central nervous system effects. Prolonged exposure may cause chronic effects. Possible cancer hazard - may cause cancer based on animal data.

Eyes May cause eye irritation. Contact may cause irritation with redness, tearing and pain. Avoid contact with eyes.

Skin Contact with skin may cause irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be harmful if absorbed through skin. Avoid contact with the skin.

Inhalation May cause irritation of respiratory tract. Inhalation of vapors may cause central nervous system (CNS) effects with symptoms such as headache, dizziness, nausea and vomiting. Avoid breathing vapours or mists of this product.

Ingestion Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. Do not ingest.

Chronic effects Prolonged skin contact may defat the skin and produce dermatitis.

Potential environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# MATERIAL SAFETY DATA SHEET



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## 3. Composition/Information on Ingredients

Component	CAS Number	Amount
Gas oils (petroleum), straight-run, high-boiling	68915-97-9	0 – 60
Distillates (petroleum), straight-run middle	64741-44-2	0 – 60
Butyl Cellosolve	112-34-5	<5
2-Butoxyethanol	111-76-2	<5

## 4. FIRST-AID MEASURES

First aid procedures	Eye contact. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Immediately flush skin with plenty of water. Remove contaminated clothing, including shoes, after flushing has begun. Get medical attention if irritation develops and persists. Thoroughly wash (or discard) clothing and shoes before reuse.
Inhalation	Call a POISON CENTRE or doctor/physician if you feel unwell. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed.
Ingestion	Get medical advice/attention if you feel unwell. If ingestion of a large amount does occur, call a poison control center immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without medical advice. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

Flammability:	Not flammable or combustible by WHMIS/OSHA criteria. Released vapors may form flammable/explosive mixtures at or above the flash point. Vapors may travel considerable distances to ignition sources and cause a flash fire. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.
Extinguishing media	
Suitable extinguishing media	Water fog. Carbon dioxide (CO <sub>2</sub> ). Alcohol resistant foam. Dry chemical powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of fire fighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment	

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for firefighters	Fire fighters should wear full protective clothing including self-contained breathing apparatus.
Fire fighting equipment/ Instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.
Specific methods	In the event of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.
Explosion data	
Sensitivity to static discharge	None known.
Sensitivity to mechanical impact	None known
Hazardous combustion Products	May include oxides of carbon. May include oxides of nitrogen.
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
Personal precautions	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back. Ensure adequate ventilation. Ventilate closed spaces before entering them.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Should not be released into the environment.
Methods for cleaning up	Eliminate ignition sources including sources of electrical, static or frictional sparks. Extinguish all flames in the vicinity.
Large Spills:	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly.
Small Spills:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Other information	Never return spills in original containers for re-use. For waste disposal, see section 13. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

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Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. vapours may travel to a source of ignition and flash back. All equipment used when handling the product must be grounded. When using, do not eat, drink or smoke. Do not use in areas without adequate ventilation. Wash thoroughly after handling. Wear personal protective equipment. Avoid release to the environment. Do not empty into drains. Do not breathe mist or vapour. Do not get this material in contact with eyes. Do not taste or swallow. Do not get on skin and clothing.
Storage	The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a closed container away from incompatible materials. Keep away from food and drink. Store in a well-ventilated place. Keep container tightly closed. Store in accordance with local/ regional/ national/ international regulation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation, especially in confined areas. Eye wash fountain and emergency showers are recommended.
Personal protective equipment	
Eye / face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Avoid contact with the skin. Wear protective gloves. Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is recommended. Closed-toe shoes recommended. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
General hygiene considerations	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke.

## 9. Physical & Chemical Properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Brown/Amber
Odour	Hydrocarbon odor

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Odour threshold	Not available.
pH	Not available.
Vapour pressure	10 hPa estimated
Vapour density	Not available.
Boiling point	211.05 °C (411.89 °F) estimated
Melting point/freezing point	Not available.
Solubility (water)	Nil
Specific gravity	0.9 – 0.95
Relative density	Not available.
Flash point	>94 °C
Flammability limits in air, upper, % by volume	6 % estimated
Flammability limits in air, lower, % by volume	1 % estimated
Auto-ignition temperature	250.00 °C (482.00 °F) estimated
Evaporation rate	Not available

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition Products	Toxic gas. Irritants. May include oxides of carbon. May include oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerization does not occur. Explosion hazard in contact with strong nitric acid.

## 11. TOXICOLOGICAL INFORMATION

Sensitisation	May cause sensitization of susceptible persons.
Local effects	May cause irritation to the eyes, skin, and respiratory system
Chronic effects	Prolonged skin contact may defat the skin and produce dermatitis. Prolonged exposure may cause chronic effects.
Carcinogenicity	Not available
Neurological effects	Excessive exposure may cause central nervous system effects such as dizziness, drowsiness or headaches.
Mutagenicity	Not Available
Reproductive effects	Not Available

## 12. ECOLOGICAL INFORMATION

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Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal
Persistence and degradability	Not available.
Ecotoxicity:	Not available.
Persistence / Degradability:	Not available.
Bioaccumulation:	Not available.
Mobility in Environment:	Not available.

## 13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

### CFR

Proper Shipping Name:	Not regulated.
Class:	Not applicable.
UN Number:	Not applicable.
Packing Group:	Not applicable.
Label Code:	Not applicable.

### TDG

Proper Shipping Name:	Not regulated.
Class:	Not applicable.
UN Number:	Not applicable.
Packing Group:	Not applicable.
Label Code:	Not applicable.

## 15. REGULATORY INFORMATION

Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS Classification	Class D2A - Carcinogenicity. Class D2B - Skin irritant. Class D2B - Eye irritant.

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WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substances List (NDSL)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. OTHER INFORMATION

HMIS® ratings	Health: 2 Flammability: 1 Physical Hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

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