

# MATERIAL SAFETY DATA SHEET

MSDS No. 12746

Trade Name VERSATROL<sup>®</sup> M

Revision date 27/Mar/2016

## 1. Chemical product and company identification

**Trade Name** VERSATROL<sup>®</sup> M

**Chemical Family** Naturally occurring mineral.  
**Use of the substance/preparation** Fluid loss reducer. Drilling fluid additive.

**Supplied by** M-I PRODUCTION TECHNOLOGIES  
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**Version** 3

### HMIS health rating

**Health** 2                      **Flammability** 1                      **Physical hazard** 0                      **PPE** E

4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. \*Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

## 2. Hazards identification

**Emergency Overview:** WARNING. May cause eye, skin, and respiratory tract irritation. May cause skin sensitization, an allergic reaction, on repeated exposure.

### Canadian Classification

**UN PIN No** Not regulated.

**WHMIS Hazard Class** D2B

**Physical state** Solid                      **Color** Black                      **Odor** Odorless

### Potential Health Effects

#### Acute Effects

**Eye contact**

May irritate eyes.

**Skin contact**

May cause skin sensitization, an allergic reaction, on repeated exposure. May cause skin photosensitization (sensitivity to light). May be irritating to the skin.

**Inhalation**

May cause respiratory tract irritation Long term inhalation of particulates may cause lung damage.

**Ingestion**

May cause gastric distress, nausea and vomiting if ingested.

### Chronic toxicity:

See Section 11 - Toxicological Information.

**Principle routes of exposure**

Dermal (skin) contact. Eyes. Inhalation.

**Target Organs/Medical**

Eyes. Skin. Respiratory system.

**Conditions Aggravated by Overexposure**

### 3. Composition/information on ingredients

Component	CAS-No	Weight % - range	Comments
Uintahite	12002-43-6	60 - 100	No comments.

**Composition Comments** Component LD50 and LC50 values are provided in Section 11, if available.

### 4. First aid measures

<b>Eye contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Look for and remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion</b>	Dilute with 2 - 3 glasses of water or milk, if conscious. If signs of irritation or toxicity occur seek medical attention. Never give anything by mouth to an unconscious person.
<b>General notes</b>	Persons seeking medical attention should carry a copy of this MSDS with them.
<b>Notes to physician</b>	Treat symptomatically.

### 5. Fire fighting measures

#### Flammable properties

<b>Flash Point</b>	Not Determined
<b>Flammability Limits in Air</b>	
<b>Lower</b>	No information available
<b>Upper</b>	No information available
<b>Autoignition Temperature F (C)</b>	932F (500C)
<b>Explosion data - sensitivity to mechanical impact</b>	N/A
<b>Explosion data - sensitivity to static discharge</b>	If applicable, information is provided in Section 5 Special Fire-Fighting Procedures, Other Flammable Properties and Section 6 Spill Procedures.
<b>Flammability Class</b>	NA
<b>Extinguishing Media</b>	Use extinguishing media appropriate for surrounding fire.

#### Protection Of Fire-Fighters

**Special Fire-Fighting Procedures** Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Keep water run off out of sewers and waterways.

**Hazardous combustion products** Oxides of: Carbon.

**Conditions of Flammability** Products are classified as flammable/combustible based on flash point as defined in the Health Canada Controlled Products Regulations, U.S. Occupational Health and Safety Administration Hazard Communication Standard and transportation regulations. See Sections 1, 2, 5, 14 and 15 for flammable/combustible classification information. Flammable/combustible materials may ignite and burn if exposed to a flame or other sources of ignition.

**Other Flammable Properties** Particulate may accumulate static electricity. Dusts at sufficient concentrations can form explosive mixtures with air.

## 6. Accidental release measures

- Personal precautions** Use personal protective equipment identified in Section 8.
- Spill procedures** Wet product may create a slipping hazard. Contain spilled material. Evacuate the spill area with the exception of the spill response team. Do not allow spilled material to enter sewers, storm drains or surface waters. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.
- Environmental precautions** Waste must be disposed of in accordance with federal, state and local laws.

## 7. Handling and storage

- Handling** Wash thoroughly after handling. Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Use only with adequate ventilation. Avoid generating or breathing dust. Product is slippery if wet.
- Storage** Store in a well-ventilated place. Keep container tightly closed. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

## 8. Exposure controls/personal protection

### Exposure Limits (TLV & PEL - 8H TWA):

Component	CAS-No	Weight % - range	ACGIH TLV	OSHA PEL	Other	Notes
Uintahite	12002-43-6	60 - 100	None	None	None	None

**Engineering Controls** Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

### Personal Protection Equipment

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

- Eye/Face Protection** Dust resistant safety goggles.
- Skin Protection** Nitrile. Polyvinylchloride (PVC). Wear appropriate clothing to prevent repeated or prolonged skin contact. Chemical resistant gloves recommended for prolonged or repeated contact. Use protective gloves made of: Natural rubber.
- Respiratory Protection** All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent.
- If exposed to airborne particles of this product use at least a NIOSH-approved N95 half-mask disposable or re-useable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or re-useable particulate respirator.

**General Hygiene Considerations** Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product.

## 9. Physical and chemical properties

<b>Color</b>	Black
<b>Odor</b>	Odorless
<b>Physical state</b>	Solid
<b>pH</b>	Not Determined
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.04 - 1.06
<b>Density (lb/gal)</b>	Not Determined
<b>Solubility (water)</b>	Not Determined
<b>Melting/freezing point</b>	Not Determined
<b>Boiling point/range</b>	Not Determined
<b>Pour point</b>	Not Determined
<b>Viscosity</b>	Not Determined
<b>Vapor pressure</b>	NA
<b>Vapor Density (Air=1)</b>	NA
<b>Evaporation rate</b>	NA
<b>Octanol/Water Partition Coefficient</b>	Not Determined
<b>Odor Threshold(s)</b>	Not Determined
<b>VOCs (lbs/gallon)</b>	Not Determined

## 10. Stability and reactivity

<b>Chemical stability</b>	Stable
<b>Conditions to avoid</b>	Keep away from heat, sparks and flame Excessive heat.
<b>Materials to avoid</b>	Oxidizing agents
<b>Conditions of Reactivity</b>	See Conditions and Materials to Avoid, if applicable.
<b>Hazardous decomposition products</b>	For thermal decomposition products, see Section 5.
<b>Hazardous polymerization</b>	Will not occur

## 11. Toxicological information

**Acute Exposure Effects, Irritation and Sensitization** See Section 2.

**Chronic, Carcinogenicity, Reproductive Toxicity, Teratogenicity, Embryotoxicity, Mutagenicity Effects** See Component Toxicological Summary and Product Toxicological Information, if available.

**Synergistic Products/Effects** N/D

**Component Toxicological Data** Any adverse component toxicological effects and acute toxicity values (LD50s, LC50s) are listed below. If no effects or acute values are listed for components, no such data were identified.

Component	Target organ effects	LD50 / LC50
Uintahite	N/A	N/A

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Uintahite	N/A	N/A	N/A	N/A

Component	Component Toxicological Summary
Uintahite	No information available

**Product Toxicological Information** Long term inhalation of particulate can cause irritation, inflammation and/or permanent injury to the lungs. Illnesses such as pneumoconiosis ("dusty lung"), pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma may develop.

## 12. Ecological information

<b>Ecotoxicology</b>	No information available
<b>Product Ecotoxicity Data</b>	Contact M-I Environmental Affairs Department for available product ecotoxicity data.
<b>Biodegradation</b>	N/D
<b>Bioaccumulation</b>	N/D

Component ecotoxicity data are listed below. If no data are listed, none were found in the company review.

## 13. Disposal considerations

<b>Waste Classification</b>	N/D
<b>Waste Management</b>	Under U.S. Environmental Protection Agency (EPA) Resource Conservation and Recovery Act ( RCRA), it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.
<b>Disposal Method</b>	Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

## 14. Transport information

<b>DOT Proper Shipping Description</b>	Not regulated for transportation by DOT, TDG, IMDG, ICAO/IATA.
<b>Canada TDG Shipping Description</b>	Not regulated.
<b>UN PIN No</b>	Not regulated.
<b>IMDG shipping description.</b>	Not regulated.
<b>ICAO/IATA Shipping Description</b>	Not regulated.

## 15. Regulatory information

### U.S. Federal and State Regulations

**SARA 311/312 Hazard Categories**                      Immediate (acute) health hazard.

**SARA 302/304, 313, CERCLA RQ, California Proposition 65**

Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Uintahite	N/A	N/A	N/A

### International Chemical Inventories

U.S. TSCA - Components are listed or exempt from listing.  
China Inventory - Components are listed or exempt from listing.  
European Union EINECS/ELINCS - Components are listed or exempt from listing.  
Korea TCCL ECL - Components are listed or exempt from listing.  
U.S. TSCA - No components are subject to TSCA 12(b) export notification requirements.  
Australia AICS - Components are listed or exempt from listing.  
Canada DSL - Components are listed or exempt from listing.  
Philippine PICCS - Components are listed or exempt from listing.  
New Zealand - Components are listed or exempt from listing.  
Japan METI ENCS - Components are listed or exempt from listing.

**Canadian Classification**

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 Hazard Class** D2B

**16. Other information**

**The following sections have been revised** 1, 2, 3, 16.

**N/A - Not Applicable, N/D - Not Determined.**

\*A mark of M-I L.L.C.

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