

# Safety Data Sheet

## VERSAMOD<sup>†</sup>

### 1. Identification

#### 1.1 Product identifier

**Product name** VERSAMOD<sup>†</sup>  
**Product code** 10146

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Drilling fluid additive.  
**Uses advised against** Consumer use

#### 1.3 Details of the supplier of the safety data sheet

**Supplier** M-I  
L.L.C. P.O.Box  
42842  
Houston, TX 77242  
www.miswaco.slb.com

**Prepared by**  
Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Bethicia Prasek

#### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600  
**Telephone Number** - 281-561-1511

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS - Classification

##### Health hazards

Serious eye damage/eye irritation	Category 2
-----------------------------------	------------

**Environmental hazards** Not classified

**Physical Hazards** Not classified

#### 2.2 Label elements

**Signal word**

WARNING

**Hazard statements**

H319 - Causes serious eye irritation

**Precautionary statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P501 - Dispose of contents/ container to an approved waste disposal plant

**Unknown acute toxicity**

65% of the mixture consists of ingredient(s) of unknown toxicity.

**3. Composition/information on Ingredients****3.1 Substances**

Not Applicable

**3.2 Mixtures**

Component	CAS-No	Weight % - range
Petroleum distillates, hydrotreated light	64742-47-8	30 - 60

**Comments**

The product contains other ingredients which do not contribute to the overall classification. The exact percentage (concentration) of composition has been withheld as a trade secret

**4. First aid measures****4.1 First-Aid Measures****Inhalation**

Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Get medical attention immediately if symptoms occur.

**Ingestion**

Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

**Skin contact**

Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

---

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

#### **4.2 Most important symptoms and effects, both acute and delayed**

##### **Main symptoms**

**Inhalation** Please see Section 11. Toxicological Information for further information.

**Ingestion** Please see Section 11. Toxicological Information for further information.

**Skin contact** Please see Section 11. Toxicological Information for further information.

**Eye contact** Please see Section 11. Toxicological Information for further information.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically

### **5. Fire-fighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water Fog, Alcohol Foam, CO<sub>2</sub>, Dry Chemical.

##### **Extinguishing media which shall not be used for safety reasons**

None known.

#### **5.2 Special hazards arising from the substance or mixture**

##### **Unusual fire and explosion hazards**

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air.

##### **Hazardous combustion products**

Carbon oxides (CO<sub>x</sub>), Nitrogen oxides (NO<sub>x</sub>).

#### **5.3 Advice for firefighters**

##### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Evacuate personnel to safe areas. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery.

#### **6.2 Environmental precautions**

Do not allow spilled material to enter sewers, storm drains or surface waters.

##### **Environmental exposure controls**

No information available.

#### **6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

**6.4 Reference to other sections**

No information available.

**7. Handling and storage****7.1 Precautions for safe handling****Handling**

Keep away from heat, sparks and open flame. No smoking. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures/precautions** Ensure adequate ventilation.

**Storage precautions** Keep away from open flames, hot surfaces and sources of ignition. Keep container/package tightly closed and in a well-ventilated place. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

**8. Exposure controls/personal protection****8.1 Control parameters**

Component Information

Component	ACGIH TLV	OSHA PEL
Petroleum distillates, hydrotreated light	Not Determined	Not Determined

**8.2 Exposure controls**

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.

**Engineering measures to reduce exposure**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye protection**

Tightly fitting safety goggles.

**Hand protection**

Wear chemical resistant gloves such as nitrile or neoprene.

**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 mist/aerosol of this product, use an organic vapor cartridge with a P-95 pre-filter attached. In work environments containing oil mist/aerosol, use an organic vapor cartridge with a P-95 pre-filter attached. If exposed to vapors from this product, use a NIOSH/MSHA-approved respirator with an organic vapor cartridge.

**Skin and body protection**

Wear appropriate personal protective clothing to prevent skin contact.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous
Odor	Hydrocarbon odor.
Color	Amber
Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No information available	
pH @ dilution	No information available	
Melting/freezing point		
Boiling point/range	No information available	
Flash point	79.4 °C / 175 °F	PMCC
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	0.908	
Bulk density	No information available	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	> 20.5 cSt @ 40 °C	
Dynamic viscosity	No information available	
Log Pow	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

### 9.2 Other information

Pour point	1.7 °C / 35 °F
Molecular weight	No information available
VOC content(%)	None
Density	No information available

## 10. Stability and reactivity

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

Keep away from sources of ignition - No smoking.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>).

## 11. Toxicological information

**11.1 Information on toxicological effects****Acute toxicity****Inhalation**

May cause irritation of respiratory tract. Vapors inhaled in high concentration have a narcotic effect on the central nervous system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**Eye contact**

May cause eye irritation.

**Skin contact**

May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis. May be absorbed through the skin in harmful amounts.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Petroleum distillates, hydrotreated light	No data available	No data available	No data available	No data available

**Sensitization**

This product does not contain any components suspected to be sensitizing.

**Mutagenic effects**

No evidence of mutagenic properties.

**Carcinogenicity**

No evidence of carcinogenic properties.

**Reproductive toxicity**

No evidence of toxicity to reproduction.

**Developmental toxicity**

Not known to cause birth defects or have a deleterious effect on a developing fetus.

**Routes of exposure**

Inhalation. Skin contact. Eye contact.

**Routes of entry**

Skin contact. Inhalation.

**Specific target organ toxicity  
(single exposure)**

Not classified

**Specific target organ toxicity  
(repeated exposure)**

Not classified.

<b>Neurological effects</b>	Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions.
<b>Target organ effects</b>	Central nervous system.
<b>Aspiration hazard</b>	Not Applicable.

## 12. Ecological information

### 12.1 Toxicity

#### **Toxicity to algae**

See component information below.

#### **Toxicity to fish**

See component information below.

#### **Toxicity to daphnia and other aquatic invertebrates**

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated light 64742-47-8 ( 30 - 60 )	2.2 mg/L LC50 (Lepomis macrochirus) = 96 h 45 mg/L LC50 (Pimephales promelas) = 96 h 2.4 mg/L LC50 (Oncorhynchus mykiss) = 96 h	No information available	4720 mg/L LC50 (Den-dronereides heteropoda) = 96 h

### 12.2 Persistence and degradability

No product level data available.

### 12.3 Bioaccumulative potential

No product level data available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

### 12.6 Other adverse effects.

None known.

## 13. Disposal considerations

### 13.1 Waste treatment methods

<b>Disposal Method</b>	Disposal should be made in accordance with federal, state and local regulations.
<b>Contaminated packaging</b>	Do not burn, or use a cutting torch on, the empty drum. Empty containers may contain flammable or explosive vapors. Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. Transport information

### 14.1 UN Number

<b>UN/ID No. (ADR/RID/ADN/ADG)</b>	Not regulated
<b>UN No. (IMDG)</b>	Not regulated
<b>UN No. (ICAO)</b>	Not regulated
<b>UN No. (DOT)</b>	NA1993

### 14.2 Proper shipping name

Combustible liquid, n.o.s., (contains petroleum distillates), Not regulated for U.S. ground transport in non-bulk containers (<119 gallons). Not regulated under TDG, IMDG, ICAO/IATA.

### 14.3 Hazard class(es)

<b>ADR/RID/ADN Hazard class</b>	Not regulated
<b>IMDG Hazard class</b>	Not regulated
<b>ICAO Hazard class/division</b>	Not regulated
<b>DOT Hazard class</b>	3

### 14.4 Packing group

<b>ADR/RID/ADN Packing Group</b>	Not regulated
<b>IMDG Packing group</b>	Not regulated
<b>ICAO Packing group</b>	Not regulated
<b>DOT Packing group</b>	III

### 14.5 Environmental hazard

Marine pollutant	No
------------------	----

### 14.6 Special precautions

Not Applicable

## 15. Regulatory information

### International inventories

<b>USA (TSCA)</b>	Complies
<b>European Union (EINECS and ELINCS)</b>	Complies
<b>Canada (DSL)</b>	Complies
<b>Philippines (PICCS)</b>	Complies
<b>Japan (ENCS)</b>	Complies
<b>China (IECSC)</b>	Complies
<b>Australia (AICS)</b>	Complies
<b>Korean (KECL)</b>	Complies
<b>New Zealand (NZIoC)</b>	Complies



**U.S. Federal and State Regulations**

**SARA 311/312 Hazard Categories**

Fire hazard. Immediate (acute) health hazard.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Petroleum distillates, hydrotreated light	N/A	N/A	N/A

**State Comments**

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

**Canadian Classification**

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**WHMIS Hazard Class**                      B3 (Combustible Liquids) D2B (Other Toxic Effects - Toxic Material)

**16. Other information**

**Supersedes date**                              29/Apr/2014

**Revision date**                                 14/March/2016

**Version**                                         9

**The following sections have been revised**    All sections. Updated according to GHS/CLP.

**HMIS classification**

Health    1  
 Flammability                                    2  
 Physical hazard                                0  
 PPE     J

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

**Disclaimer**

**The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.**