Safety data sheet number PID1664

Version 8

Revision date 07/May/2018 Supercedes Date: 04/Feb/2015



# Safety Data Sheet VERSAMOD\*

# 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name VERSAMOD\* Product code PID1664

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

Recommended Use Rheology modifier.

Uses advised against Consumer use

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

### **Supplier**

M-I Drilling Fluids UK Limited Westhill Business Park Westhill AB32 6JL Aberdeenshire Scotland United Kingdom

+47 51577424

SDS@slb.com

# 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

# 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**GHS Classification** 

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards Not classified

### 2.2 Label elements

Signal word



None

# **Hazard Statements**

This product is not classified as hazardous therefore no (H) hazard statements assigned.

### **Precautionary statements**

This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

Contains

Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics \*

### 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

# 3. Composition/information on Ingredients

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <	921-050-8	RM1003048	30-60
2% aromatics *			

#### Comments

The viscosity of this product is high enough that it is not an aspiration risk and the H304 phrase does not apply.

The product contains other ingredients which do not contribute to the overall classification.

\*Substances which have an EC Number that begins with the number "9" is a Provisional List Number. The list numbers published by ECHA do not have any legal significance. The EC substance definition and related classification & labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 15 of this SDS.

# 4. First Aid Measures

# 4.1 First aid measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

**Ingestion** Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth

to an unconscious person. Get medical attention if symptoms occur.

**Skin contact** Wash skin thoroughly with soap and water. Get medical attention if irritation persists.

Eye Contact Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.



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

General advice The severity of the symptoms described will vary dependant of the concentration and the

length of exposure. If adverse symptoms develop, the casualty should be transferred to

hospital as soon as possible.

**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. Firefighting Measures

# 5.1 Extinguishing media

### Suitable extinguishing media

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

# Extinguishing media which must not be used for safety reasons

None known.

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

### Unusual fire and explosion hazards

None known.

#### **Hazardous combustion products**

Thermal decomposition can lead to release of irritating gases and vapours Carbon oxides (COx).

# 5.3 Advice for firefighters

### Special protective equipment for fire-fighters

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

### **Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

### 6. Accidental Release Measures

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



Use personal protective equipment. See also section 8.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

### **Environmental exposure controls**

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

### Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After cleaning, flush away traces with water.

### 6.4 Reference to other sections

See section 13 for more information.

# 7. Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use.

### **Hygiene Measures**

Use good work and personal hygiene practices to avoid exposure When using do not eat, drink, smoke, sniff Wash hands and face before breaks and immediately after handling the product Remove contaminated clothing

# 7.2 Conditions for safe storage, including any incompatibilities

**Technical measures/precautions** Ensure adequate ventilation. Keep airborne concentrations below exposure limits.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place

**Storage class** Chemical storage.

Packaging materials

Use specially constructed containers only

# 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

**Exposure Limits** Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics: DE - TRGS 900

(MAK) - LTE(8h): 140 mg/m³, 20 ppm Oil mist (mineral) workplace exposure limits are currently under review by legislative authorities. This workplace exposure limit (WEL) standard is applicable to highly refined mineral oils and is provided as a guidance limit only

LT. EXP = 5mg/m<sup>3</sup> and ST. EXP = 10mg/m<sup>3</sup>. No biological limit allocated



### **Component Information**

Chemical Name	Arabic	Australia	Egypt
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined
Chemical Name	India	Indonesian	Japan
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined
Chemical Name	Kazakhstan	Kuwait	New Zealand
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined
Chemical Name	Malaysia	Philippines	Russia
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined
Chemical Name	Thailand	Vietnam	Turkey
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	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 Controls**

Ensure adequate ventilation Mechanical ventilation or local exhaust ventilation is required.

Personal	protective	equipment
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Eye protection Use eye protection according to EN 166, designed to protect against liquid splashes Tightly

fitting safety goggles Safety glasses with side-shields

Hand protection Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee

training Impervious gloves made of: Neoprene Nitrile PVC

Break through time >480 minutes

Glove thickness >=0.4 mm

Be aware that liquid may penetrate the gloves. Frequent change is advisable.

ventilation wear suitable respiratory equipment Respirator with a vapor filter (EN 141) Use respirator with organic vapor protection (A, brown) At work in confined or poorly ventilated

spaces, respiratory protection with air supply must be used.

Skin and body protection Wear suitable protective clothing Eye wash and emergency shower must be available at the

work place.

Hygiene Measures Wash hands before eating, drinking or smoking Remove and wash contaminated clothing

before re-use





### 8.2.3 Environmental exposure controls

**Environmental exposure** Use appropriate containment to avoid environmental contamination See section 6 for more

information

# 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state Liquid **Appearance** Viscous Slight Odour Colour Amber **Odour threshold** Not applicable

**Property** Values Remarks

No information available pH @ dilution No information available Melting / freezing point No information available Boiling point/range No information available

Flash point 79.4 °C / 175 °F **PMCC** 

No information available

No information available **Evaporation rate** Flammability (solid, gas) Not applicable

Flammability Limit in Air

**Upper flammability limit** Not applicable Lower flammability limit Not applicable

No information available Vapour pressure Vapour density No information available

Specific gravity 0.89 - 0.91

**Bulk density** Relative 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 > 20.5 cSt @ 40 °C Kinematic viscosity Dynamic viscosity No information available log Pow No information available

Not applicable **Explosive properties Oxidising properties** None known

9.2 Other information

Pour point 1.7°C / 35°F

No information available Molecular weight

VOC content(%) None

**Density** No information available

20 °C



### Comments

The data listed above are typical physical and chemical properties and should not be construed as product specification.

# 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 polymerisation**

Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

See Section 5.2.

# 11. Toxicological Information

# 11.1 Information on toxicological effects

**Acute toxicity** 

Inhalation Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Eye contact** May cause slight irritation.

**Skin contact** Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause stomach discomfort.

Unknown acute toxicity Not applicable.

LD50 Oral > 2000 mg/kg (rat) (based on components) (MIXTURE)

### Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C13-C18, n-alkanes, isoalkanes,	> 5000 mg/kg (Rat) Litterature	> 2000 mg/kg (Rabbit)	> 5.2 mg/l (Rat)



cyclics, < 2% aromatics \* data

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

**Mutagenic effects** This product does not contain any known or suspected mutagens.

**Carcinogenicity** This product does not contain any known or suspected carcinogens.

**Reproductive toxicity**This product does not contain any known or suspected reproductive hazards.

Routes of exposure Skin contact.

Routes of entry No route of entry noted.

Specific target organ toxicity -

Single exposure

Not classified

Specific target organ toxicity -

Repeated exposure

Not classified.

**Aspiration hazard**The viscosity of this product is high enough that it is not an aspiration risk and the H304

phrase does not apply.

Other information Key literature references and sources for data. See Section 16 for more information.

# 12. Ecological Information

### 12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 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.

Toxicology data for the components

Oh and Name		Tarriella tarriana	Table to deal where and attend
Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other
	-		aquatic invertebrates
Hydrocarbons, C13-C18, n-alkanes,	OECD 203 Fish LC50 > 1 g/l.	ISO 10253 Algae EC50 > 3 g/l.	ISO 14669 Daphnia magna LC50 >
isoalkanes, cyclics, < 2% aromatics	Duration: 96 h. Notes: Litterature	Duration: 72 h. Notes: Litterature	3 g/l. Duration: 48 h. Notes:
*	data.	data	Litterature data.

### 12.2 Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.



Chemical Name	Persistence and degradability
Hydrocarbons, C13-C18, n-alkanes,	Readily biodegradable, failing 10-d window
isoalkanes, cyclics, < 2% aromatics *	

# 12.3 Bioaccumulative potential

The product contains potentially bioaccumulating substances.

Chemical Name	Bioaccumulation
Hydrocarbons, C13-C18, n-alkanes,	Material may have some potential to bioaccumulate
isoalkanes, cyclics, < 2% aromatics *	

# 12.4 Mobility

### Mobility

Insoluble in water. See component information below.

Chemical Name	Mobility
Hydrocarbons, C13-C18, n-alkanes,	Insoluble
isoalkanes, cyclics, < 2% aromatics *	

### Mobility in soil

See component information below.

Chemical Name	Mobility in soil
Hydrocarbons, C13-C18, n-alkanes,	No information available
isoalkanes, cyclics, < 2% aromatics *	

# 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

### 12.6 Other adverse effects.

None known.

# 12.7 Other information

Key literature references and sources for data. See Section 16 for more information.

# 13. Disposal considerations

### 13.1 Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations.



products

Contaminated packaging Empty containers should be transported/delivered using a registered waste carrier for local

recycling or waste disposal.

# 14. Transport information

### 14.1. UN number

Not regulated

### 14.2. UN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

14.3. Hazard class(es)

ADR/RID/ADN/ADG Hazard class

IMDG Hazard class

ICAO Hazard class/division

Not regulated
Not regulated

14.4 Packing group

ADR/RID/ADN/ADG Packing Group

IMDG Packing group

ICAO Packing group

Not regulated
Not regulated
Not regulated

### 14.5 Environmental hazard

No

# 14.6 Special precautions

Not applicable

### 14.7 Transport in bulk according to Annex I/II of MARPOL 73/78 and the IBC Code

Please contact SDS@slb.com for info regarding transport in Bulk.

# 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

### International inventories

**USA, Toxic Substances Control Act** Complies

inventory (TSCA)

Canada (DSL) Complies
Philippines (PICCS) Complies

Inventory - Japan - Existing and

Does not comply

**New Chemicals list** 

China (IECSC) Complies



Australia (AICS)

Korea (KECL)

Inventory - New Zealand - Inventory

Complies

of Chemicals (NZIoC)

CAS Number 64742-47-8 can be used to identify the substance given a list number in section 3 in areas not subject to the REACH regulation.

# 16. Other Information

Prepared by Global Regulatory Compliance - Chemicals (GRC - Chemicals), Anne Karin (Anka) Fosse

Supercedes Date: 04/Feb/2015

Revision date 07/May/2018

Version 8

This SDS has been revised in the

following section(s)

All sections Product Code change No changes with regard to classification have been

made.

### Key literature references and sources for data

www.ChemADVISOR.com Supplier National Chemical Inventories

National Chemical Inventories
National regulatory information
National occupational exposure limits

### **HMIS** classification

Health 1
Flammability 1
Physical hazard 0
PPE B

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