



## Safety Data Sheet VERSAPAC\*

### 1. Identification

#### 1.1 Product identifier

**Product name** VERSAPAC\*

**Product code** PID1676

This product may not be distributed or used in Canada.

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

**Recommended Use** Viscosifier.

**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

Telephone: 1 281-561-1511

**E-mail address** SDS@slb.com

**Prepared by**

Global Regulatory Compliance - Chemicals (GRC - Chemicals)

#### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : 0800-720-8000/0800-777-2323 (WGRA)

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS - Classification**

**Health hazards**

Skin sensitization	Category 1
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**Environmental hazards**

Chronic aquatic toxicity	Category 2
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**Physical Hazards**

Combustible dust
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**2.2 Label elements**



**Signal word**

WARNING

**Hazard statements**

H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects  
H232 - May form combustible dust concentrations in air

**Precautionary statements**

P280 - Wear protective gloves and eye/face protection

**Supplementary precautionary statements**

P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P391 - Collect spillage  
P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified**

None known

**Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

**3. Composition/information on Ingredients**

**3.1 Substances**

Chemical Name	CAS No	Weight-%	Regulation (EC) No 1272/2008
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	Proprietary	60-100	Skin Sens. 1 H317 Aquatic Chronic 2 H411

**3.2 Mixtures**

Not applicable

**Comments**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret

**4. First aid measures**

**4.1 First aid measures**

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<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek medical attention if irritation occurs.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention.
<b>Eye Contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. 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. Fire-fighting 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**

Suspended dust may present a dust explosion hazard.

**Hazardous combustion products**

Fire or high temperatures create:, Carbon oxides (COx), Nitrogen oxides (NOx).

**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**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Use personal protective equipment. See also section 8. Avoid breathing dust; if exposed to high dust concentration, leave area immediately. Suspended dust may present a dust explosion hazard.

**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. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

**Methods for cleaning up**

Shovel into suitable container for disposal. Take precautionary measures against static discharges. Use non-sparking tools and equipment.

**6.4 Reference to other sections**

See section 13 for more information.

**7. Handling and storage**

**7.1 Precautions for safe handling**

**Handling**

Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid dust formation. Fine dust dispersed in air may ignite. Persons susceptible to allergic reactions should not handle this product.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

**Technical measures/precautions**      Ensure adequate ventilation. Keep airborne concentrations below exposure limits. Take precautionary measures against static discharges.

**Storage precautions**                      Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid heat, flames and other sources of ignition. Protect from moisture Avoid contact with: Oxidizing agents

**Packaging materials**                      Use specially constructed containers only.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Exposure limits**                              **The product does not contain any hazardous materials with occupational exposure limits established.**  
**No biological limit allocated**

Chemical Name	ACGIH TLV	OSHA PEL	Argentina - Occupational Exposure Limits - TWAs (CMPs)	Brazil - Occupational Exposure Limits - TWAs (LTs)	Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs)
Reaction product of decanoic	Not determined	Not determined	Not determined	Not determined	Not determined

acid, 12-hydrostearic acid and 1,2-ethanediamine					
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**IDLH (Immediately Dangerous to Life or Health)**

Immediately Dangerous to Life or Health (IDLH) is established by the US National Institute for Occupational Safety and Health (NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

Chemical Name	IDLH (Immediately Dangerous to Life or Health)
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	Not determined

**8.2 Exposure controls**

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

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. Keep airborne concentrations below exposure limits. Local exhaust ventilation. Apply technical measures to comply with the occupational exposure limits.

**Personal protective equipment**

- Eye protection**                      Tightly fitting safety goggles.
- Hand protection**                    Use protective gloves made of: Neoprene gloves Nitrile Frequent change is advisable
- 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 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.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder Dust
<b>Color</b>	Cream
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH		

<b>pH @ dilution</b>	> 122 °C / > 251 °F	
<b>Melting / freezing point</b>	No information available	
<b>Boiling point/range</b>	No information available	
<b>Flash point</b>	No information available	PMCC
<b>Evaporation rate (BuAc =1)</b>	No information available	
<b>Flammability (solid, gas)</b>	Not applicable	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific gravity</b>	No information available	
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	Immiscible in water	
<b>Solubility in other solvents</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	~352 °C / ~ 666°F	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>log Pow</b>	Not determined	
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing properties</b>	None known.	

**9.2 Other information**

<b>Pour point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content(%)</b>	None
<b>Density</b>	No information available

**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**

Dust may form explosive mixture in air.

**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**

Avoid contact with heat, sparks, open flame, and static discharge. Avoid dust formation. Protect from moisture.

**10.5 Incompatible materials**

Oxidizing agents.

**10.6 Hazardous decomposition products**

See Section 5.2.

**11. Toxicological information**

## 11.1 Information on toxicological effects

### Acute toxicity

<b>Inhalation</b>	Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
<b>Eye contact</b>	Dust may cause mechanical irritation.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	Ingestion may cause stomach discomfort.

### Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	33.3 mg/kg	No data available	No data available

Chemical Name	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	No data available	No data available	No data available	No data available

<b>Sensitization</b>	May cause allergic skin reaction.
<b>Mutagenic effects</b>	This product does not contain any known or suspected mutagens.
<b>Carcinogenicity</b>	This product does not contain any known or suspected carcinogens.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Developmental toxicity</b>	Not known to cause birth defects or have a deleterious effect on a developing fetus.
<b>Routes of exposure</b>	Skin contact.
<b>Routes of entry</b>	No route of entry noted.
<b>Specific target organ toxicity - Single exposure</b>	Not classified
<b>Specific target organ toxicity - Repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not applicable.

## 12. Ecological information

### 12.1 Toxicity

#### Toxicity to algae

EC50 (Skeletonema costatum 72hr): 4.08 mg/L.

#### Toxicity to fish

LC50 (Rainbow trout 96hr): > 1000 mg/l.

#### Toxicity to daphnia and other aquatic invertebrates

LC50 (Daphnia 48hr): > 15.63 mg/L.

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	No information available	No information available	No information available

### 12.2 Persistence and degradability

Product is not biodegradable.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

Immiscible with water.

### 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

**Disposal Method** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. Transport information

### 14.1. UN number

UN No. (DOT)	UN3077
UN No. (MT/ANTT)	UN3077
UN No. (TDG)	UN3077
UN/ID No. (ADR/RID/ADN/ADG)	UN3077
UN No. (IMDG/ANTAQ)	UN3077
UN No. (ICAO/ANAC)	UN3077

### 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Reaction product of decanoic acid, 12-hydroxystearic acid and 1,2-ethanediamine)

### 14.3 Hazard class(es)

DOT Hazard class	9
ANTT Hazard class	9
TDG Hazard class	9
ADR/RID/ADN/ADG Hazard class	9
IMDG/ANTAQ Hazard class	9
ICAO/ANAC Hazard class/division	9



**14.4 Packing group**

DOT/ANTT Packing group	PG III
ANTT Packing group	PG III
TDG Packing group	PG III
ADR/RID/ADN/ADG Packing group	PG III
IMDG/ANTAQ Packing group	PG III
ICAO/ANAC Packing group	PG III



**14.5 Environmental hazard**

Marine pollutant Yes

**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 MISDS@slb.com for info regarding transport in Bulk.

**15. Regulatory information**

**International inventories**

USA (TSCA)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

**Europe - REACH**

Contact REACH@slb.com for REACH information.

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

**SARA 311/312 Hazard Categories**

Immediate (acute) health hazard. Fire Hazard (Combustible Dust)

Chemical Name	SARA 302 / TPQs	SARA 313	CERCLA RQ
Reaction product of decanoic acid, 12-hydrostearic acid and 1,2-ethanediamine	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.

## 16. Other information

<b>Supersedes date</b>	24/Feb/2015
<b>Revision date</b>	04/Oct/2017
<b>Version</b>	2
<b>This SDS has been revised in the following section(s)</b>	All sections. Globally Harmonized System (GHS)
<b>HMIS classification</b>	
Health	2
Flammability	1
Physical hazard	0
PPE	J

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### Disclaimer

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