



## Safety Data Sheet SAFE-VIS<sup>†</sup> E

### 1. Identification

#### 1.1 Product identifier

Product name SAFE-VIS<sup>†</sup> E  
Product code 10281

#### 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

Prepared by  
Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Asif Babar

#### 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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Environmental hazards Not classified

Physical Hazards Not classified

#### 2.2 Label elements



**Signal word**

WARNING

**Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

**Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

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

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P501 - Dispose of contents/container in accordance with local regulations.

**Supplementary precautionary statements**

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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

P271 - Use only outdoors or in a well-ventilated area

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

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

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

P362 - Take off contaminated clothing and wash before reuse

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Unknown acute toxicity**

45% 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
Tetradecane	629-59-4	30 - 60
Pentadecane	629-62-9	10 - 30

**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**

<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. Seek medical attention at once. If vomiting occurs spontaneously, minimize the risk of aspiration by properly positioning the affected person.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur. Wash contaminated clothing before re-use.
<b>Eye contact</b>	Remove contact lenses. Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. 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.

#### **Main symptoms**

<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	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**

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

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

Do not use a solid water stream as it may scatter and spread fire.

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

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

Heating of containers may cause pressure rise, with risk of bursting.

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

Thermal decomposition can lead to release of irritating gases and vapors.

#### **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 identified in Section 8. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Evacuate and ventilate the area. Prevent further leakage or spillage if safe to do so.

**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 materials 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.

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

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

**Storage precautions**                      Keep containers tightly closed in a dry, cool and well-ventilated place. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid heat, flames and other sources of ignition.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**Exposure limits**                              Contains no substances with occupational exposure limit values

Component	ACGIH TLV	OSHA PEL
Tetradecane	Not Determined	Not Determined
Pentadecane	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.

**Personal protective equipment**

<b>Eye protection</b>	It is good practice to wear goggles when handling any chemical. Tightly fitting safety goggles.
<b>Hand protection</b>	Use protective gloves made of:., Nitrile, Neoprene, Be aware that liquid may penetrate the gloves. Frequent change is advisable.
<b>Respiratory protection</b>	No personal respiratory protective equipment normally required, In case of insufficient ventilation wear suitable respiratory equipment, Use respirator with organic vapor protection (A, brown).
<b>Skin and body protection</b>	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
<b>Hygiene measures</b>	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>	Liquid
<b>Appearance</b>	Very viscous.
<b>Odor</b>	Mild
<b>Color</b>	Tan
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
pH	No information available	
pH @ dilution	No information available	
Melting/freezing point	-20 °C / -4 °F	
Boiling point/range	115.6 °C / 240.0 °F	
Flash point	> 107.2 °C / > 225.0 °F	
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	< 0.05 @ 20 °C / 68 °F	
Vapor density	5.1 (air = 1)	
Specific gravity	0.91 - 0.94	
Bulk density	No information available	
Water solubility	Dispersible	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
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** No information available  
**Molecular weight** No information available  
**VOC content(%)** No information available  
**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**

Avoid contact with heat, sparks, open flame, and static discharge.

**10.5 Incompatible materials**

Nitrates. Strong acids. Strong bases. Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon oxides (COx).

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Inhalation** May cause respiratory irritation.  
**Eye contact** Causes serious eye irritation.  
**Skin contact** Causes skin irritation.  
**Ingestion** May be fatal if swallowed and enters airways.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetradecane	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rat )	No data available
Pentadecane	No data available	No data available	No data available

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Tetradecane	No data available	No data available	No data available	No data available
Pentadecane	No data available	No data available	No data available	No data available

<b>Sensitization</b>	This product does not contain any components suspected to be sensitizing.
<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>	Inhalation. Ingestion. Eye contact. Skin contact.
<b>Routes of entry</b>	Inhalation. Ingestion. Eye contact.
<b>Specific target organ toxicity (single exposure)</b>	Category 3
<b>Specific target organ toxicity (repeated exposure)</b>	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>	Eyes. Respiratory system. Skin. Central nervous system.
<b>Aspiration hazard</b>	Not Applicable.

## 12. Ecological information

### 12.1 Toxicity

#### **Toxicity to algae**

This product is not considered toxic to algae.

#### **Toxicity to fish**

This product is not considered toxic to fish.

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

This product is not considered toxic to invertebrates.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Tetradecane 629-59-4 ( 30 - 60 )	No information available	0.026 mg/L EC50 (Chlorella vulgaris) = 24 h	No information available
Pentadecane 629-62-9 ( 10 - 30 )	No information available	No information available	No information available

### 12.2 Persistence and degradability

No product level data available.

### 12.3 Bioaccumulative potential

No data available.

**12.4 Mobility in soil**

Dispersible in 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**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID/ADG).

**14.1 UN Number**

<b>UN No. (DOT)</b>	Not regulated
<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

**14.2 Proper shipping name**

Not regulated for transportation by DOT, TDG, IMDG and ICAO/IATA.

**14.3 Hazard class(es)**

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

**14.4 Packing group**

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

**14.5 Environmental hazard**

Marine pollutant	No
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**14.6 Special precautions**

Not Applicable



## 15. Regulatory information

### International inventories

USA (TSCA)	Complies
Canada (DSL)	Does not Comply
Mexico (INSQ)	Does not Comply
European Union (EINECS and ELINCS)	Does not Comply
Philippines (PICCS)	Complies
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

### U.S. Federal and State Regulations

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Tetradecane	N/A	N/A	N/A
Pentadecane	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 Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

## 16. Other information

<b>Supersedes date</b>	14/Jun/2013
<b>Revision date</b>	14/May/2015
<b>Version</b>	6
<b>The following sections have been revised</b>	All sections. Updated according to GHS/CLP.

### HMIS classification

Health	1
Flammability	1
Physical hazard	0
PPE	J

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

†A mark of M-I L.L.C.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.