

## Safety Data Sheet VG-SUPREME\*

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

#### 1.1 Product identifier

Product name VG-SUPREME\*  
Product code PID10001

#### 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

Schlumberger Oilfield UK PLC  
Schlumberger House, Buckingham Gate  
Gatwick Airport  
West Sussex RH6 0NZ

+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

#### National Poison Center Numbers

Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Norway	Poison information centre: +47 22 59 13 00

### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

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**

Crystalline silica (impurity)

## 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria  
Suspended dust may present a dust explosion hazard

## 3. Composition/information on Ingredients

### 3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Component information
Crystalline silica (impurity)	238-878-4	14808-60-7	<3	STOT RE. 2 (H373)

### 3.2 Mixtures

Not applicable

### **Comments**

Naturally occurring mineral.

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

This product contains a small quantity of quartz, crystalline silica. Prolonged and repeated exposure to concentrations of crystalline silica exceeding the workplace exposure limit (WEL) may lead to chronic lung disease such as silicosis. IARC Monographs, Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica in the form of quartz or cristobalite from occupational sources causes cancer in humans. IARC Classification Group I.

## 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.

<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
<b>Eye Contact</b>	Remove contact lenses, if worn. 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**

<b>General advice</b>	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**

<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**

<b>Notes to physician</b>	Treat symptomatically.
---------------------------	------------------------

### **5. Fire-Fighting Measures**

#### **5.1 Extinguishing media**

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

Water spray, fog or regular foam, Carbon dioxide (CO<sub>2</sub>), Dry powder, Dry sand.

##### **Extinguishing media which must 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**

Dust may form explosive mixture in air.

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

Fire or high temperatures create: Carbon oxides (CO<sub>x</sub>), Hydrogen chloride gas, 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.

##### **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. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

## **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.

### **Methods for cleaning up**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Take precautionary measures against static discharges. 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. Avoid dust formation. Material becomes slippery when wet. Use caution if wet.

### **Hygiene Measures**

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands before eating, drinking or smoking. Remove contaminated clothing.

## **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. Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture. Avoid contact with: Strong oxidizing agents.

**Storage class** Chemical storage.

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

## **7.3 Specific end uses**

See Section 1.2.

# **8. Exposure Controls/Personal Protection**

## **8.1 Control parameters**

### **Component Information**

Chemical Name	EU OEL	Austria	Denmark
---------------	--------	---------	---------

Crystalline silica (impurity)	0.1 mg/m <sup>3</sup> TWA respirable fraction	0.05 mg/m <sup>3</sup> TWA alveolar dust, respirable fraction	0.1mg/m <sup>3</sup>
<b>Chemical Name</b>	<b>France</b>	<b>Germany</b>	<b>Hungary</b>
Crystalline silica (impurity)	0.1 mg/m <sup>3</sup> TWA	Not determined	0.1mg/m <sup>3</sup> TWA
<b>Chemical Name</b>	<b>Italy</b>	<b>Netherlands</b>	<b>Norway</b>
Crystalline silica (impurity)	0.1 mg/m <sup>3</sup>	0.075 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup> TWA respirable dust 0.1 mg/m <sup>3</sup> TWA respirable dust 0.3 mg/m <sup>3</sup> TWA total dust 0.9 mg/m <sup>3</sup> STEL total dust 0.15 mg/m <sup>3</sup> STEL respirable dust 0.3 mg/m <sup>3</sup> STEL respirable dust Carcinogen
<b>Chemical Name</b>	<b>Poland</b>	<b>Portugal</b>	<b>Romania</b>
Crystalline silica (impurity)	0.1 mg/m <sup>3</sup> TWA NDS	0.025 mg/m <sup>3</sup> TWA respirable fraction	0.1mg/m <sup>3</sup> TWAdust, respirable fraction
<b>Chemical Name</b>	<b>Spain</b>	<b>Switzerland</b>	<b>UK</b>
Crystalline silica (impurity)	0.05 mg/m <sup>3</sup> TWA VLA-ED	0.15 mg/m <sup>3</sup> TWA MAK	Not determined

#### Notes

No biological limit allocated

### 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. Provide appropriate exhaust ventilation at places where dust is formed.

#### Personal protective equipment

##### Eye protection

Use eye protection according to EN 166, designed to protect against powders and dusts. Tightly fitting safety goggles. Safety glasses with side-shields.

##### Hand protection

Wear gloves according to EN 374 to protect against skin effects from powders Use protective gloves made of: Neoprene Nitrile Frequent change is advisable

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment, Suitable mask with particle filter P3 (European Norm 143), 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**

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder Dust
<b>Odor</b>	Odorless
<b>Color</b>	Off-white

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>
<b>pH</b>	Not applicable	
<b>pH @ dilution</b>	No information available	
<b>Melting point</b>	No information available	
<b>Boiling point/range</b>	No information available	
<b>Flash point</b>	No information available	
<b>Evaporation rate (BuAc =1)</b>	No information available	
<b>Flammability</b>	Not applicable	
<b>Explosion limits:</b>		
<b>Upper explosion limit</b>	No information available	
<b>Lower explosion limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Relative Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.7	
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>	No information available	
<b>Density and/or Relative Density</b>	No information available	
<b>Explosive properties</b>	Suspended dust may present a dust explosion hazard	
<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

### **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**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static charges. Protect from moisture. Avoid dust formation.

### **10.5 Incompatible materials**

Strong oxidizing agents.

### **10.6 Hazardous decomposition products**

See Section 5.2.

## **11. Toxicological Information**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Acute toxicity**

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	Dust may cause mechanical irritation.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Ingestion may cause stomach discomfort.
<b>Unknown acute toxicity</b>	Not applicable.
<b>LD50 Oral</b>	> 8000 mg/kg (rat) (based on similar product)

#### **Toxicology data for the components**

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Crystalline silica (impurity)	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>	Crystalline silica dust is listed by IARC in Group 1 as known to cause lung cancer in humans, if inhaled.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>Routes of Exposure</b>	Inhalation.
<b>Routes of entry</b>	Inhalation.
<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.

### **11.2 Information on other hazards**

<b>Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors.
--	--

**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**

This product is not considered toxic to algae. PRODUCT: > 1000 mg/L (Marine alga; 48 hrs).

**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. PRODUCT: > 2000 mg/L (Marine invertebrate; 48 hrs).

**Toxicology data for the components**

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Crystalline silica (impurity)	LC50 Danio rerio (zebra fish) : > 10000 mg/l 96h	EC50: > 1000 mg/l 72h	LC50 Daphnia magna (Water flea): > 10000 mg/l 24h

### 12.2 Persistence and degradability

Product is not biodegradable. See component information below.

Chemical Name	Persistence and degradability
Crystalline silica (impurity)	Inorganic compound

### 12.3 Bioaccumulative potential

Does not bioaccumulate. See component information below.

Chemical Name	Bioaccumulation
Crystalline silica (impurity)	Product/Substance is inorganic

### 12.4 Mobility

**Mobility**

Insoluble in water. See component information below.

Chemical Name	Mobility
Crystalline silica (impurity)	Insoluble in water

**Mobility in soil**

See component information below.

Chemical Name	Mobility in soil
Crystalline silica (impurity)	Not expected to adsorb on soil

### 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

### 12.6 Endocrine disrupting properties.

This product does not contain any known or suspected endocrine disruptors

#### **12.7 Other adverse effects**

None known.

#### **12.8 Additional information**

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

### **13. Disposal Considerations**

#### **13.1 Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EWC Waste Disposal No</b>	According to the European Waste Catalog, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: EWC waste disposal No: 01 05 99 - wastes not otherwise specified

### **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)**

<b>ADR/RID/ADN/ADG Hazard class</b>	Not regulated
<b>IMDG/ANTAQ Hazard class</b>	Not regulated
<b>ICAO/ANAC Hazard class/division</b>	Not regulated

#### **14.4 Packing group**

<b>ADR/RID/ADN/ADG Packing group</b>	Not regulated
<b>IMDG/ANTAQ Packing group</b>	Not regulated
<b>ICAO/ANAC Packing group</b>	Not regulated

#### **14.5 Environmental hazard**

No

#### **14.6 Special precautions**

Not applicable

#### **14.7 Maritime transport in bulk according to IMO instruments**

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

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008  
Commission Regulation (EU) No 2015/830 of 28 May 2015  
Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

#### Dangerous substance category per Seveso Directive (2012/18/EU)

This product does not contain substances listed under Dangerous substance category per Seveso Directive (2012/18/EU)

#### Netherlands

**Dutch Mining Regulations:** In accordance with Mining Regulations 9.2 and Chapter 4 of the Working Conditions Decree.

**SZW list; Crystalline Silica (respirable)** is listed in the SZW list of carcinogenic substances and processes

#### 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	

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

**Denmark Pr. no:** 1543788

### 15.2 Chemical Safety Report

No information available

## 16. Other Information

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

**Supersedes Date:** 13/Mar/2017

**Revision date** 10/Mar/2022

**Version** 4

**This SDS has been revised in the following section(s)** All sections. No changes with regard to classification have been made.

**Key literature references and sources for data**  
www.ChemADVISOR.com

Supplier  
National Chemical Inventories  
National regulatory information  
National occupational exposure limits

**Training Advice**

Follow general hygiene considerations recognized as common good workplace practices

Do not handle until all safety precautions have been read and understood

**HMIS classification**

Health	1*
Flammability	1
Physical hazard	0
PPE	X

**Full text of H-Statements referred to under sections 2 and 3**

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

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

\*A mark of M-I L.L.C., a Schlumberger Company

**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.

This Document is Confidential and Proprietary. Unless Otherwise Marked, It is an Uncontrolled Copy.