

Safety data sheet number B269

Version 1

Revision date 12/Oct/2015

Supersedes date None



## Safety Data Sheet Guar Slurry B269

### 1. Identification of the substance/preparation and of the Company/undertaking

#### 1.1 Product identifier

Product name	Guar Slurry B269
Product code	B269
Denmark Pr. no.	1946018

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

Recommended use	Used as a fracturing additive in oilfield applications
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Uses advised against	Consumer use
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#### 1.3 Details of the supplier of the safety data sheet

##### Supplier identification

Schlumberger Oilfield UK PLC  
Victory House, Churchill Court  
Manor Royal, Crawley  
West Sussex RH10 9LU  
+ 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 001 281 595 3518

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards	Not classified
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Environmental hazards	Not classified
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Physical Hazards	Not classified
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#### 2.2 Label Elements

##### Signal word

None

### **Hazard statements**

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

### **Precautionary Statements - EU (§28, 1272/2008)**

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

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### **Contains**

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

### **2.3 Other data**

Not classified as PBT/vPvB by current EU criteria

## **3. Composition/information on ingredients**

### **3.1 Substances**

Not Applicable

### **3.2 Mixtures**

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	926-141-6	*	30-60	Xn; R65, R66	Asp. Tox. 1 (H304) EUH066	01-2119456620-43-x xxx

### **Comments**

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. The viscosity of this product is high enough that it is not an aspiration risk and the R65/H304 phrase does not apply.

## **4. First aid measures**

### **4.1 First Aid**

#### **Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

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<b>Ingestion</b>	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 skin thoroughly with soap and water. Get medical attention if irritation persists.
<b>Eye contact</b>	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses. 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.
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**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**

<b>Notes to physician</b>	Treat symptomatically.
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**5. Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Use extinguishing media appropriate for surrounding material.

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

Do not use water jet.

**5.2 Special hazards arising from the substance or mixture****Unusual fire and explosion hazards**

Vapors are heavier than air and may spread along floors.

**Hazardous combustion products**

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

**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 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-combustable 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 smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing.

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

<b>Technical measures/precautions</b>	Ensure adequate ventilation. Keep airborne concentrations below exposure limits.
<b>Storage precautions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid contact with: Oxidizing agents
<b>Storage class</b>	Chemical storage.
<b>Packaging material</b>	Use specially constructed containers only

**7.3 Specific end uses**

See Section 1.2.

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

## Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established. 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>.

Component	EU OEL - Third List	Austria	Australia	Denmark
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined	Not determined

  

Component	Malaysia	France	Germany	Hungary
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined	Not determined

  

Component	New Zealand	Italy	Netherlands	Norway
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not Determined	Not determined	Not determined	Not determined

  

Component	Poland	Portugal	Romania	Russia
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	Not determined	Not determined	Not determined

  

Component	Spain	Switzerland	Turkey	UK
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not determined	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 measures to reduce exposure

Ensure adequate ventilation. Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into work environment.

## Personal protective equipment

<b>Eye protection</b>	Safety glasses with side-shields.
<b>Hand protection</b>	Use protective gloves made of: Butyl, Gloves- Neoprene, Nitrile Unless Specified, 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), At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
<b>Skin and body protection</b>	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>	Slurry
<b>Appearance</b>	Slurry
<b>Odour</b>	Hydrocarbon odor. Sweet
<b>Colour</b>	tan
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	Not applicable	
<b>pH @ dilution</b>		
<b>Melting/freezing point</b>	< 18 °C / <64 °F	
<b>Boiling point/range</b>	209 °C / 408 °F	
<b>Flash Point</b>	> 71 °C / > 159 °F	
<b>Evaporation rate</b>		
<b>Flammability (solid, gas)</b>	Not Applicable	
<b>Flammability Limits in Air</b>		
<b>Upper flammability Limit</b>	8.1%	
<b>Lower flammability limit</b>	1.3%	
<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>Relative density</b>	1.0	@ 20 °C.
<b>Water solubility</b>	Slightly soluble 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>	>20.5 mm <sup>2</sup> /s	@ 40 °C
<b>Viscosity, dynamic</b>	No information available	
<b>Log Pow</b>	No information available	

<b>Explosive properties</b>	To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded
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**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 VALUE** 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 polymerisation does not occur.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

Oxidizing agents.

**10.6 Hazardous decomposition products**

See also 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.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	No data available	No data available	No data available

**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. Eye 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 R65/H304 phrase does not apply.

## 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.

#### 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
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	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****Mobility**

Slightly soluble in water.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT/vPvB by current EU criteria.

**12.6 Other adverse effects.**

None known.

## 13. Disposal considerations

**13.1 Waste treatment methods****Waste from residues / unused products**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

**EWC waste disposal No.**

According to the European Waste Catalogue, 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: Waste Code: 16 03 06 - organic wastes other than those mentioned in 16 03 05

## 14. Transport information

**14.1 UN number**

Not regulated

**14.2 Proper shipping name**

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

**14.3. Hazard class(es)**

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ADR/RID/ADN/ADG Hazard class Not regulated  
IMDG Hazard class Not regulated  
ICAO Hazard class/division Not regulated

#### 14.4 Packing group

ADR/RID/ADN/ADG Packing Group Not regulated  
IMDG Packing group Not regulated  
ICAO Packing group Not regulated

#### 14.5 Environmental hazard

No

#### 14.6 Special precautions

Not Applicable

#### 14.7 Transport in bulk according to Annex 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

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

#### International inventories

USA, Toxic Substances Control Act inventory (TSCA)	Does not Comply
European Union - EINECS and ELINCS	Complies
Canada, Domestic Substance List (DSL)	Does not Comply
Philippines (PICCS)	Does not Comply
Inventory - Japan - Existing and New Chemicals list	Does not Comply
China (IECSC)	Does not Comply
Australia (AICS)	Does not Comply
Korea (KECL)	Does not Comply
Inventory - New Zealand - Inventory of Chemicals (NZIoC)	Does not Comply

### 15.2 Chemical Safety Report

No information available

## 16. Other information

**Prepared by** Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Muriel Martin Beurel

**Revision date** 12/Oct/2015

**Version** 1

**The following sections have been revised:** New issue.

**Text of R phrases mentioned in Section 3**

R65 - Harmful: may cause lung damage if swallowed

R66 - Repeated exposure may cause skin dryness or cracking

**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.

**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.