

SDS no. PID857  
Version 12  
Revision date 09/Nov/2018  
Supersedes date 10/Apr/2018



## Safety Data Sheet KLA-GARD\*

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

#### 1.1 Product identifier

Product name KLA-GARD\*  
Product code PID857

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

Recommended Use Shale control agent.  
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

##### **M-I SWACO, A Schlumberger Company**

200 - 125, 9th Avenue SE  
Calgary, Alberta T2G 0P6, Canada  
Telephone: 1-780-962-8221

##### **Schlumberger Serviços de Petróleo LTDA**

Rua Internacional 500Cavaleiro – Macaé, RJ. CEP: 27.930-075  
Telefone: +55 22 3311-7051

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 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.

**Unknown acute toxicity** Not applicable.

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

### 3.1 Substances

Not applicable

### 3.2 Mixtures

No classified ingredients, or those having occupational exposure limits, present above the level of disclosure.

### 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

<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. 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, 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**

Heating of containers may cause pressure rise, with risk of bursting. Vapors may travel considerable distance to source of ignition and flash back.

**Hazardous combustion products**

Carbon oxides (CO<sub>x</sub>), Nitrogen oxides (NO<sub>x</sub>), Ammonia.

**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. Solutions extremely slippery when spilled.

**6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil. Refer to applicable federal, state and local regulations.

**Environmental exposure controls**

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.

### **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. Ammonia or amines may be released when this component is heated or exposed to high pH.

### **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. Avoid heat, flames and other sources of ignition. Avoid contact with: Oxidizing agents. Acids. Bases.

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

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

### **8.1 Control parameters**

#### **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.

### **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. Mechanical ventilation or local exhaust ventilation is required. Keep airborne concentrations below exposure limits.

**Personal protective equipment**

<b>Eye protection</b>	Tightly fitting safety goggles.
<b>Hand protection</b>	Impervious gloves made of: Nitrile Neoprene Break through time >480 minutes Glove thickness >=0.4 mm Be aware that liquid may penetrate the gloves. Frequent change is advisable.
<b>Respiratory Protection</b>	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.
<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>	No information available
<b>Color</b>	Clear - Blue
<b>Odor</b>	Amine
<b>Odor threshold</b>	Not applicable

Property	Values	Remarks
<b>pH</b>		
<b>pH @ dilution</b>	6.5 - 8.5	(1% solution)
<b>Melting / freezing point</b>	No information available	
<b>Boiling point/range</b>	125 °C / 257 °F	
<b>Flash point</b>	> 99 °C / > 210 °F	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>	1.1	
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	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>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>log Pow</b>	No information available	
<b>Explosive properties</b>	Not applicable	

**Oxidizing properties** None known.

**9.2 Other information**

**Pour point** No information available  
**Molecular weight** No information available  
**VOC content(%)** None  
**Density** 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**

No data available.

**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 heat, flames and other sources of ignition. Ammonia or amines may be released when this component is heated or exposed to high pH.

**10.5 Incompatible materials**

Oxidizing agents. Acids. Bases.

**10.6 Hazardous decomposition products**

See Section 5.2.

## 11. Toxicological Information

**11.1 Information on toxicological effects**

**Acute toxicity**

**Inhalation** Inhalation of vapors 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.

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<b>Sensitization</b>	Not classified.
<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>	Conclusive but not sufficient for classification.
<b>Developmental toxicity</b>	Component substance is listed on California Proposition 65 as a developmental hazard.
<b>Routes of exposure</b>	Inhalation. Skin contact.
<b>Routes of entry</b>	None known.
<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 classified.

## 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.

### 12.2 Persistence and degradability

Readily biodegradable. (ECHA data) (PRODUCT).

### 12.3 Bioaccumulative potential

Bioaccumulation is unlikely. (ECHA data) (PRODUCT).

### 12.4 Mobility

Soluble 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

#### 14.1. UN number

UN No. (DOT)	Not regulated
UN No. (MT/ANTT)	Not regulated
UN No. (TDG)	Not regulated
UN/ID No. (ADR/RID/ADN/ADG)	Not regulated
UN No. (IMDG/ANTAQ)	Not regulated
UN No. (ICAO/ANAC)	Not regulated
UN No. (DPC)	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)

DOT Hazard class	Not regulated
ANTT Hazard class	Not regulated
TDG Hazard class	Not regulated
ADR/RID/ADN/ADG Hazard class	Not regulated
IMDG/ANTAQ Hazard class	Not regulated
ICAO/ANAC Hazard class/division	Not regulated
DPC Hazard class	Not regulated

#### 14.4 Packing group

DOT Packing group	Not regulated
ANTT Packing group	Not regulated
TDG Packing group	Not regulated
ADR/RID/ADN/ADG Packing group	Not regulated
IMDG/ANTAQ Packing group	Not regulated
ICAO/ANAC Packing group	Not regulated
DPC Packing group	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

### International inventories

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

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### SARA 302/304, 313, CERCLA RQ, California Proposition 65

Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

### California Proposition 65

#### **WARNING**



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Chemical Name	California Proposition 65
Ethylene Glycol 107-21-1	Developmental Toxicity

### Canadian Classification

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

**Brazilian Regulations**  
**Brazil Regulation**

This SDS was prepared in accordance with Brazil law NBR 14725.

**Federal Police** Not determined

**Army** Not determined

**ANVISA** Not determined

**16. Other Information**

**Supersedes date** 10/Apr/2018

**Revision date** 09/Nov/2018

**Version** 12

**This SDS has been revised in the following section(s)** 6. Accidental release measures No changes with regard to classification have been made.

**HMIS classification**

Health	1
Flammability	1
Physical hazard	0
PPE	X

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