

A Schlumberger Company

# Safety Data Sheet KLA-GARD<sup>†</sup>

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

### 1.1 Product identifier

Product name	KLA-GARD <sup>†</sup>
Product code	MI11168

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

Schlumberger Drilling Services Sdn Bhd (SDSSB) Suite 13.2, West Wing, Rohas Perkasa 9 Jalan P. Ramlee 50250 Kuala Lumpur MISDS@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

## 2. Hazards identification

## 2.1 Classification of the substance or mixture

Classification according to (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 - EU (§28, 1272/2008)





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

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

# Indication of danger

Not classified

# Contains

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

### 2.3 Other data

Not classified as PBT/vPvB by current EU criteria

# Australian statement of hazardous/dangerous nature

Classified as Non-Hazardous according to the criteria of NOHSC. NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

# 3. Composition/information on ingredients

### 3.1 Substances

Not Applicable

# 3.2 Mixtures

Comp	onent	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
		Listed	Proprietary	60-100	-	Not classified	No data available

### Comments

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

# 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.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Eye contact	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	
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

Use extinguishing media appropriate for surrounding material.

Extinguishing media which shall not be used for safety reasons None known.

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

# Unusual fire and explosion hazards

None known.

# Hazardous combustion products

Fire or high temperatures create:, Carbon oxides (COx), Ammonia, 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

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-combustible material and transfer to containers for later disposal. After cleaning, flush away traces with water.

**KLA-GARD<sup>†</sup>** 

# 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.

### 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,	ncluding an	ny incompatibilities
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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
Storage class	Chemical storage.
Packaging material	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** 

No biological limit allocated

Component	EU OEL	Austria	Australia	Denmark
	Not determined	Not determined	Not determined	Not determined



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Component	Malaysia	France	Germany	Hungary
	Not determined	Not determined	Not determined	Not determined
Component	New Zealand	Italy	Netherlands	Norway
-	Not Determined	Not determined	Not determined	Not determined
Component	Poland	Portugal	Romania	Russia
•	Not determined	Not determined	Not determined	10 mg/m³ MAC
		Switzerland	Turkey	UK
Component	Spain			

# 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. Mechanical ventilation or local exhaust ventilation is required.

# Personal protective equipment

Eye protection	It is good practice to wear goggles when handling any chemical. Tightly fitting safety goggles.
Hand protection	Repeated or prolonged contact:, Use protective gloves made of:, Nitrile, Neoprene, Be aware that liquid may penetrate the gloves. Frequent change is advisable.
Respiratory protection	No personal respiratory protective equipment normally required, In case of insufficient ventilation wear suitable respiratory equipment, Chemical respirator with ammonia and amines cartridge (K/P2, green filter).
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

Physical state	Liquid
Appearance	No information available
Odor	Amine
Color	Clear - Blue



Odor threshold	Not applicable	
Property	<u>Values</u> No information available	<u>Remarks</u>
pH pH @ dilution	6.5 - 8.5	(1% solution)
Melting/freezing point Boiling point/range	125 °C	
Flash point	> 98 °C / > 210 °F	Closed cup
Evaporation rate (BuAc =1)		
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	1.1 sg	16 (68°F)  °C
Bulk density Relative density	No information available No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity Log Pow	Not determined	
209101		
Explosive properties	Not Applicable	
Oxidizing properties	None known.	
9.2 Other information		
Pour point	No information available	
Molecular weight	No information available	
VOC content(%)	None No information available	
Density	INU INIUMATION AVAIIADIE	

# **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 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 also section 5.2.

# **11. Toxicological information**

# 11.1 Information on toxicological effects

Inhalation of vapors in high concentration may cause irritation of respiratory system.
May cause slight irritation.
Prolonged contact may cause redness and irritation.
Ingestion may cause stomach discomfort.
Not Applicable.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
	= 3400 mg/kg ( Rat )	No data available	No data available
Sensitization This	product does not contain any o	components suspected to be	sensitizing.
Mutagenic effects This	product does not contain any l	known or suspected mutagen	S.
Carcinogenicity This	product does not contain any l	known or suspected carcinoge	ens.

Reproductive toxicity	None known.
Routes of exposure	None known.
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	No hazard from product as supplied.

# 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
	10000 mg/L LC50 (Leuciscus idus) = 96 h	500 mg/L EC50 (Desmodesmus subspicatus) = 72 h	320 mg/L EC50 (Daphnia magna) = 48 h 500 mg/L EC50 (Daphnia magna Straus) = 48 h

# 12.2 Persistence and degradability

No product level data available.

## 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

Mobility 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 taken for local recycling, recovery 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: 07 01 99.

# 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 Not regulated

14.2 Proper shipping name Not regulated

<u>14.3 Hazard class(es)</u> ADR/RID/ADN/ADG Hazard class IMDG Hazard class ICAO Hazard class/division	Not regulated Not regulated Not regulated
<u>14.4 Packing group</u> ADR/RID/ADN/ADG Packing group IMDG Packing group ICAO Packing group	Not regulated Not regulated 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 MISDS@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

**Germany, Water Endangering** Water endangering class = 1 **Classes (VwVwS)** 

Australian Standard for the Uniform Scheduling of Drugs and Poisons No Poisons Schedule number allocated

New Zealand hazard classification Not classified.

HSNO approval no. Not required.

Group number Not required.





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.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].

National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].

National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/2013] (CLASS Regulations)

The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 [P.U. (B) 128/2014] (ICOP) International inventories

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

Contact REACH@miswaco.slb.com for REACH information.

### 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	31/Jul/2013	
Revision date	24/Sep/2014	
Version	4	
The following sections have been revised:	This SDS have been made in a new database and therefore a new layout. No changes with regard to classification have been made, Updated according to GHS/CLP.	



### Text of R phrases mentioned in Section 3

Not classified

### 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. Not classified

†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.