



SAFETY DATA SHEET

K-17

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	K-17
APPLICATION	Drilling fluid additive Shale inhibitor.
SUPPLIER	M-I SWACO A Schlumberger Company Endeavour Drive Arnhall Business Park, Westhill Aberdeen AB32 6UF Scotland UK T = +44 (0)1224-742200 F = +44 (0)1224-742288 E-mail = MBXMSDS-EH@miswaco.slb.com
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2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45)	Xi;R36/38.	
CLASSIFICATION (EC 1272/2008)	Physical	Not classified.
	Health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319
	Environmental	Not classified.
LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008		



SIGNAL WORD	Warning	
HAZARD STATEMENTS	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
PRECAUTIONARY STATEMENTS	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P313	Get medical advice/attention.

HUMAN HEALTH

This product contains a small quantity of quartz, crystalline silica. 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 1. Because of quantity and composition, the health hazard is small.

3 COMPOSITION/INFORMATION ON INGREDIENTS

POTASSIUM LIGNITE	90 - 100%
CLASSIFICATION (EC 1272/2008)	CLASSIFICATION (67/548)
Skin Irrit. 2 - H315	Xi;R36/38.
Eye Irrit. 2 - H319	

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QUARTZ, CRYSTALLINE SILICA		0.1 - 1%
CAS-No.: 14808-60-7	EC No.: 238-878-4	
CLASSIFICATION (EC 1272/2008) STOT Rep. 2 - H373	CLASSIFICATION (67/548) Xn;R48/20.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16

COMPOSITION COMMENTS

The data shown is in accordance with the latest EC Directives. 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. Because of quantity and composition, the health hazard is small.

4 FIRST-AID MEASURES**INHALATION**

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

INGESTION

Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Get medical attention.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed immediately or cooled with water.

UNUSUAL FIRE & EXPLOSION HAZARDS

High concentrations of dust may form explosive mixture with air.

SPECIFIC HAZARDS

Fire or high temperatures create: Vapours/gases/fumes of: Oxides of: Carbon.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. In case of spills, beware of slippery floors and surfaces.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

K-17

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
QUARTZ, CRYSTALLINE SILICA	WEL		0,1 mg/m ³			

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Dust filter P3 (for especially fine dust/powder).

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. Nitrile. or Neoprene gloves are recommended.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust		
COLOUR	Black		
ODOUR	Earthy.		
SOLUBILITY	Part soluble in water.		
RELATIVE DENSITY	1.6 - 1.8 s.g @ 20°C (68°F)	pH-VALUE, DILUTED SOLUTION	8 - 10 @ 2%

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Avoid contact with oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Vapours/gases/fumes of: Oxides of: Carbon.

11 TOXICOLOGICAL INFORMATION**INHALATION**

Dust may irritate respiratory system or lungs.

INGESTION

May irritate and cause stomach pain, vomiting and diarrhoea.

SKIN CONTACT

Irritating and may cause redness and pain.

EYE CONTACT

Irritating to eyes. Particles in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Contact M-I SWACO's QHSE Department for ecological information at env@miswaco.com.

13 DISPOSAL CONSIDERATIONS

K-17**DISPOSAL METHODS**

Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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

15 REGULATORY INFORMATION**UK REGULATORY REFERENCES**

Chemicals (Hazard Information & Packaging) Regulations. Control of Substances Hazardous to Health Regulations 2002 (as amended) Workplace Exposure Limits EH40.

EU DIRECTIVES

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 1999/45/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.

INTERNATIONAL CHEMICAL INVENTORIES

Contact REACH@miswaco.com for REACH information. Complies with the following national/regional chemical inventory requirements: DSL / NDSL, IECSC, EINECS / ELINCS, TCCL ECL, NZIoC, TSCA

16 OTHER INFORMATION**GENERAL INFORMATION**

HMIS Health -1 HMIS Flammability - 1 HMIS Physical Hazard - 0 E - Safety glasses, Gloves, Dust Respirator

INFORMATION SOURCES

Product information provided by the commercial vendor(s). Material Safety Data Sheet, Misc. manufacturers. LOLI. European Chemicals Bureau - ESIS (European Chemical Substances Information).

REVISION COMMENTS

Classification updated. General revision. Compiled or Revised by Ewan MacLeod

ISSUED BY

Bill Cameron

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RISK PHRASES IN FULL

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R36/38 Irritating to eyes and skin.

HAZARD STATEMENTS IN FULL

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.

DISCLAIMER

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.