

A HUBER COMPANY

According to (EC) No 1907/2006 (REACH)
(EU) No 453/2010

Issue Date: 21/Mar/2011

REVISION NUMBER: 1.1

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

Product Name:	Kwik-Seal®
Chemical Name	wood fiber blend
Product Use	Lost circulation material
Company	Kelco Oil Field Group Regus House 1 Berry Street Aberdeen AB25 1HF SCOTLAND Tel: +44 1224 843784
Emergency Telephone Number	CHEMTREC: +1 800 424 9300 or International +1 703 527 3887 In Asia Pacific: +65 6491 9100 EU KOFG Phone: +44 (0) 1224 843 784 Aberdeen, Scotland
Internet	www.kofg.com
Email	kofg@cpkelco.com

2. HAZARDS IDENTIFICATION

Classification	EC 1272/2008: Not Classified EC 1999/45: Not Classified
Label Element(s):	None
Signal Word(s)	None
<u>Nut Shell - Not applicable</u>	None
<u>Wood fibers, Cellulose - Not regulated</u>	Dust may cause respiratory sensitization in susceptible individuals after prolonged use. See Section 11.
Other Precautions	Wet material on walking surfaces is slippery Avoid dust formation. Keep away from heat, flame sparks and other ignition sources.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S) / CAS	EC / REACH	EU CLP Classification
Nut Shell Not applicable	Exempt *	Not Classified
Wood fibers, Cellulose Not regulated	Exempt *	Not Classified
Synthetic Fiber Mixture	Exempt *	Not Classified
Synthetic flakes Not applicable	Exempt *	Not Classified

Nut Shell - Not applicable

Regulation (EC) 1907/2006: REACH
Exempt

Wood fibers, Cellulose - Not regulated

Regulation (EC) 1907/2006: REACH
Exempt

Synthetic Fiber - Mixture

Regulation (EC) 1907/2006: REACH
Exempt

Synthetic flakes - Not applicable

Regulation (EC) 1907/2006: REACH
Exempt

4. FIRST AID MEASURES

General Advice:

Remove material from eyes, skin and clothing.
In case of doubt or when symptoms persist, seek medical attention.
Wash heavily contaminated clothing before reuse.

Eye contact

Flush eye(s) immediately with plenty of water

Skin contact

Wash off with soap and plenty of water.

Ingestion

No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed..

Inhalation

If large quantities have been inhaled, keep airway open as necessary and seek medical attention

5. FIRE-FIGHTING MEASURES

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General Advice

Treat as "Class A" fire. Product will burn when in contact with a flame. Tends to smolder.

Suitable Extinguishing Media

Water
Dry chemical
Foam

Unsuitable Extinguishing Media

None

Hazardous Combustion Products

Carbon dioxide
Carbon monoxide
aldehydes
organic acids

Dust Explosion Hazard

Can contain sufficient fines to cause a combustible dust explosion. Do not breathe smoke, gases or vapors generated.

Special Protective Equipment for Firefighters

Use personal protective equipment. If necessary, wear self contained breathing apparatus (SCBA) for fire fighting. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.

Environmental Precautions

Not expected to cause an environmental hazard as a result of its intended use, disposal, or incineration.

Methods for Cleaning up

Sweep or vacuum spilled material and repackage After cleaning, flush away traces with water Disposal information - Refer to Section 13

Other Information

Personal protection equipment (PPE) - Refer to Section 8.
Disposal - Refer to Section 13.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practices.
Avoid conditions that generate airborne dust in handling, transfer and clean up.
Product may form combustible dust-air mixtures.
Avoid contact with eyes and skin. Wear suitable personal protection equipment.
Remove material from eyes, skin and clothing.

Storage

Dry storage.

Specific End Uses

Oil field drilling fluid compound

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls

Engineering Controls

Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Personal Protective Equipment

Eye Protection

Protect eyes from exposure.
EU: P2 half masks
Have eye flushing equipment available.

Skin and Body Protection

Wear appropriate protective clothing.
Wash thoroughly after handling.
Launder contaminated clothing and clean protective equipment before reuse.

Hand Protection

Gloves are recommended if extended exposure is anticipated.
EN 420

Respiratory Protection

If handling generates dust levels which cause irritation, or results in personal exposure exceeding the Occupational Exposure Standard (OES) of 10 mg M-3 (8 hr TWA reference period) for total inhalable dust, then suitable approved dust respirator should be used.
Personal exposure to dust should ideally be controlled to the lowest level possible below the OES.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Control Parameters

Exposure Limit Values:

**Nuisance particles/
Nuisance dust:**

If not specified dusts are:
ACGIH: 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction)
OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

Nut Shell - Not applicable

Exposure limits

Not established. The creation of aerosols should be avoided.

Wood fibers, Cellulose - Not regulated

Exposure limits

Not established. The creation of aerosols should be avoided.

Synthetic Fiber - Mixture

Exposure limits

Not established. The creation of aerosols should be avoided.

Synthetic flakes - Not applicable

Exposure limits

Not established. The creation of aerosols should be avoided.

<h2>9. PHYSICAL AND CHEMICAL PROPERTIES</h2>
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Appearance	tan to brown
Physical State	blend of fibrous, flake and granular material
Odor	Slight odor (Do not attempt to detect the odor)
Odor Threshold	No information available
pH	Not applicable
Melting Point / Range	Not applicable
Boiling Point	Not applicable
Freeze Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Combustible
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Water Solubility	Insoluble
Autoignition Temperature	Not determined or not applicable
Oxidizing Properties	Not Applicable
Fat Solubility	Not soluble in fats

10. STABILITY AND REACTIVITY

Stability

Stable

Conditions to Avoid

Avoid dust formation.

Materials to avoid (Incompatible Materials)

None known

Hazardous Decomposition Products

Carbon monoxide

Carbon dioxide (CO₂)

aldehydes

organic acids

Nitrogen oxides

cyanide

other products of wood combustion

11. TOXICOLOGICAL INFORMATION

General

This product contains wood fiber. Wood dust may be present. Toxicological properties include special health effect of constituents.

Toxicological Data Sources

Data from material suppliers Data from regulations

Nut Shell - Not applicable

Carcinogenicity

Not listed as a carcinogen.

Wood fibers, Cellulose - Not regulated

Carcinogenicity

None of the components of this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen

Reported Human Effects

Repeated exposure over many years to uncontrolled wood dust increases the risk of nasal cavity cancer. Inhalation of wood dust may also increase the risk of lung fibrosis (scarring). There are also increased risks of respiratory and skin sensitization from wood dust and resin resulting in asthma and dermatitis, respectively

Synthetic flakes - Not applicable

Carcinogenicity

Not listed as a carcinogen.

Potential Health Effects

Eyes

Wood dust can cause eye irritation

Skin

Wood dust can cause contact dermatitis in sensitized individuals

Inhalation

Wood dust is a respiratory irritant. Use approved respirators to avoid breathing wood dust. Avoid prolonged breathing of airborne wood dust.

Ingestion

Not toxic if swallowed (less than a mouthful) based on available information.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

This product is not expected to pose an ecological hazard as a result of its intended use.

Ecotoxicity

96-hr LC50 mysid shrimp, in standard drilling mud: >1,000,000 ppm suspended particulate phase.

Microtox Toxicity: Photobacterium phosphoreum: Non-toxic.

Persistence / Degradability

This product is biodegradable.

Bioaccumulative Potential

No data available

Mobility

Data not available

Potential environmental effects

Contains no substances known to be hazardous to the environment

Other Adverse Effects

None known.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Dispose in accordance with local, state and national regulations.

14. TRANSPORT INFORMATION

UN-No

None.

Proper Shipping Name

Refer to Sections 1 and 3 for product name and chemical name(s)

IMO / IMDG

Not a dangerous substance.

ICAO / IATA

Not a dangerous substance.

RID/ADR

Not a dangerous substance.

D.O.T. Hazard Classification

Non-hazardous material.

General Information

The data provided in this section is for information only.

Please apply the appropriate regulations to properly classify your shipment for transportation.

Other information

Environmental hazards: None known

Special precautions for user: Refer to Sections 2, 7, 8, 9, 10

15. REGULATORY INFORMATION

Health Safety and Environmental regulations / legislation for the substance or mixture

Component(s) of the product are on the following Inventory lists:

COMPONENT(S) / CAS	EC / REACH	Australia (AICS)	Canada	China (IECSC)	Japan	Korea (KECL)	New Zealand (NZIoC)	Philippines (PICCS)	USA (TSCA)	Taiwan (ECN)
Nut Shell - Not applicable	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt
Wood fibers, Cellulose - Not regulated	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt
Synthetic Fiber - Mixture	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt
Synthetic flakes - Not applicable	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt *	Exempt

Nut Shell - Not applicable

Regulation (EC) 1907/2006: REACH
Exempt

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Exempt

Synthetic Fiber - Mixture

Regulation (EC) 1907/2006: REACH
Exempt

Synthetic flakes - Not applicable

Regulation (EC) 1907/2006: REACH
Exempt

Legend

Present: Listed
-: Not Listed
Exempt
Nominated

Regulatory and Compendia

Refer to Product Data Sheet

16. OTHER INFORMATION

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Training Advice

Personnel handling the substance(s) named in this Safety Data Sheet should be skilled and trained in areas associated with the key points named herein.

Personnel should have training and access to appropriate PPE for handling this product.

Personnel handling the substance(s) named in this Safety Data Sheet are responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the substance(s) intended purpose.

If additional information is required, please contact the supplier or an expert.

Sources of key data

Literature data and/or investigative reports are available through the manufacturer.

Acronym / Abbreviation

ACRONYMS:

INTERNATIONAL:

ADR: International Carriage of Dangerous Goods by Road
BOD: Biochemical Oxygen Demand
CLP: Classification, Labeling and Packaging
COD: Chemical Oxygen Demand
D.O.T.: U.S. Department of Transportation
ICAO International Civil Aviation Organization
IATA: International Air Transport Association (IATA)
IMO::International Maritime Organization.
IMDG::International Maritime Dangerous Goods
INCI: International Nomenclature of Cosmetic Ingredients
OES: Occupational Exposure Standard
OR: EU REACH Only Representative
PPE: Personal protection equipment
RID: International Carriage by Rail
SCBA: self contained breathing apparatus
TLV-STEL: Threshold Limit Values - Short Term Exposure Limits
TWA: Time Weighted Averages

North America:

CERCLA RQ: US EPA Comprehensive Environmental, Response, and Liability Act Reportable Quantity
CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CONEG: Conference of North Eastern Governors
NIOSH/MSHA - National Institute for Occupational Safety and Health/Mine Safety and Health Administration
SARA: Superfund Amendments and Reauthorization Act (US EPA)
TDG: Canada Transport of Dangerous Goods
WHMIS: Canada's Workplace Hazardous Materials Information System

Reason for version

Regulation (EC) 1907/2006: REACH
(EU) No 453/2010
and article 31 or 32

Disclaimer:

The information contained in this Safety Data Sheet to the best of CP Kelco's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use. In case of dispute, the English text governs.

END OF SAFETY DATA SHEET