

A HUBER COMPANY

Revision Date 10/Jul/2009

Revision Number 0.1

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Kwik-Seal®
<b>Product Use</b>	Oil field drilling fluid compound
<b>Chemical Name</b>	wood fiber blend
<b>Company</b>	Kelco Oil Field Group Division of CP KELCO ApS 10920 W. Sam Houston Parkway North Suite 800 Houston, Texas 77064 USA
<b>Telephone</b>	1 800 331 3677 For additional non-emergency information +1 713 895 7575 1 8 a.m. - 5 p.m. (Central Time) weekdays
<b>Fax</b>	+1 678 247 2797 (Atlanta)
<b>Emergency Telephone Number</b>	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
<b>Email</b>	kofg@cpkelco.com
<b>Internet</b>	www.kofg.com

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

<b>Appearance</b>	tan to brown
<b>Physical State</b>	blend of fibrous, flake and granular material
<b>Odor</b>	slight odor (Do not attempt to detect the odor)
<b>OSHA Regulatory Status</b>	<p>OSHA Hazard: Warning: Combustible dust. Ensure appropriate electrical classification and avoidance of ignition sources in dusty environments.</p> <p>Handle in a manner consistent with good industrial hygiene practices--avoid creating or inhaling aerosols of this or any other material.</p> <p>This product contains wood fiber. Wood dust may be present.</p>
<b>Slip Hazard</b>	Slip hazard when spilled material becomes wet.

### Potential Health Effects

**Principle Routes of Exposure** Eye contact. Skin contact. Inhalation.

#### **Acute Effects**

<b>Eyes</b>	Wood dust can cause eye irritation.
<b>Skin</b>	Wood dust can cause contact dermatitis in sensitized individuals.
<b>Inhalation</b>	Wood dust is a respiratory irritant. Use approved respirators to avoid breathing wood dust. Avoid prolonged breathing of airborne wood dust.
<b>Ingestion</b>	Not toxic if swallowed (less than a mouthful) based on available information.

**Additional toxicology information** Refer to Section 11

**Potential Environmental Effects** Refer to Section 12 for Ecological Information  
Refer to Section 13 for Disposal Considerations

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS Number
Nut Shell	1
Wood fibers, Cellulose	2
Synthetic Fiber	3

Synthetic flakes	4
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- Additional Information**
1. not regulated
  2. not regulated
  3. mixture
  4. not applicable

**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.
- Inhalation** If large quantities have been inhaled, keep airway open as necessary and seek medical attention.
- Ingestion** No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Water. Dry chemical. Foam.

**Hazardous Combustion Products** carbon dioxide  
carbon monoxide  
aldehydes  
organic acids

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

<u>NFPA</u>	<b>Health</b>	1	<b>Flammability</b>	1	<b>Instability</b>	0
<u>HMS</u>	<b>Health</b>	1	<b>Flammability</b>	1	<b>Physical Hazard (Reactivity)</b>	0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation.
<b>Environmental Precautions</b>	Not expected to cause an environmental hazard as a result of its intended use, disposal, or incineration.
<b>Methods for Cleaning up</b>	Sweep or vacuum spilled material and repackage. After cleaning, flush away traces with water. Disposal information - Refer to Section 13.
<b>Other information</b>	Reportable quantities - Refer to Section 15.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	To maintain optimum product performance, store in sealed containers in a cool, dry place away from heat and flames. Emptied container retains product residue: observe all labelled safeguards until container is cleaned and reconditioned.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

COMPONENT(S)	OSHA PEL	ACGIH TLV
Nut Shell	15 mg/m <sup>3</sup> (total dust) 8-hr TWA	
Wood fibers, Cellulose	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)	TLV: 1 mg/m <sup>3</sup>
Synthetic flakes	15 mg/m <sup>3</sup> (total dust) 8-hr TWA 5 mg/m <sup>3</sup> (respirable) 8-hr TWA	

**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**

**Respiratory Protection** Use NIOSH/MSHA approved respiratory protection equipment when airborne exposures exceeds established guidelines.

**Hand Protection** Chemical resistant gloves to prevent skin contact

**Eye Protection** Protect eyes from exposure. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

**Skin and Body Protection** Wear appropriate protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice for diagnostics. Wash off with soap and water.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	tan to brown
<b>Physical State</b>	blend of fibrous, flake and granular material
<b>Odor</b>	slight odor (Do not attempt to detect the odor)
<b>pH</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Melting Point/range</b>	Not Applicable
<b>Oxidizing Properties</b>	Not Applicable
<b>Flammability</b>	Combustible
<b>Auto Flammability</b>	NDA
<b>Vapor Pressure</b>	NAQ
<b>Water solubility</b>	Insoluble
<b>Fat Solubility</b>	Not soluble in fats

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable.
<b>Materials to Avoid</b>	None noted
<b>Hazardous Decomposition Products</b>	carbon monoxide carbon dioxide (CO <sub>2</sub> ) 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.

Data from material suppliers. Data from regulations.

### Nut Shell

**Carcinogenicity** Not listed as a carcinogen.

### Wood fibers, Cellulose

**Carcinogenicity** Wood dust has been evaluated by the International Agency for Research on Cancer (IARC) as group 1, carcinogenic to humans.

**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

**Carcinogenicity** Not listed as a carcinogen.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 96-hr LC50 mysid shrimp, in standard drilling mud: >1,000,000 ppm suspended particulate phase.  
Microtox Toxicity: Photobacterium phosphoreum: Non-toxic.

**Bioaccumulative Potential** Inert material

**Mobility** Inert material

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose in accordance with local, state and national regulations. If practical recover and reclaim or recycle.

### 14. TRANSPORT INFORMATION

**General Information** The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

**D.O.T. Hazard Classification** Non-hazardous material

**TDG** Not hazardous

**IMO / IMDG** Not hazardous

**ICAO / IATA** Not hazardous

**RID/ADR** Not hazardous

### 15. REGULATORY INFORMATION

#### International Inventories

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

- Not regulated

#### USA

##### Federal Regulations

##### **SARA Sections 302/304 313; CERCLA RQ:**

Note: If no components are listed below, this product is not subject to these referenced SARA and CERCLA regulations.

##### State Regulations

##### **California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This product is not known to contain a chemical at a level that is expected to pose significant risk under anticipated use conditions.

##### Canada

##### **WHMIS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

##### **WHMIS Hazard Class**

Not a controlled product

<b>16. OTHER INFORMATION</b>
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**Prepared By**

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**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**