1. Product and Company Identification
   Material name: Slurry Separator 2009
   Version #: 09
   Revision date: 20-March-2012
   Chemical description: Dry Blend of Clay, Inorganic Salt, and Organic Polymer
   CAS #: Mixture
   Manufacturer: CETCO Oilfield Services Company
   Industrial Wastewater Products
   2870 Forbs Avenue
   Hoffman Estates, IL 60192 US
   safetydata@amcol.com
   http://www.cetcooilfieldservices.com/
   General Information (800) 527-9948
   Emergency (800) 424-9300

2. Hazards Identification
   Emergency overview: This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica.

   Potential health effects:
   - **Eyes**: Contact with eyes may cause irritation.
   - **Skin**: Contact may irritate or burn skin.
   - **Inhalation**: Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.
   - **Ingestion**: Health injuries are not known or expected under normal use. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

   Target organs: Lungs, Skin

   Chronic effects: Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

3. Composition / Information on Ingredients
   The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

   Composition comments: This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for impurities are listed in Section 8.

4. First Aid Measures
   First aid procedures:
   - **Eye contact**: Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
   - **Skin contact**: Immediately flush skin with running water for at least 20 minutes. Get medical attention if irritation develops or persists.
   - **Inhalation**: If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by trained personnel.
   - **Ingestion**: Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
5. **Fire Fighting Measures**

   **Flammable properties**
   This material will not burn.

   **Extinguishing media**
   Dry chemical, CO2, water spray or regular foam.

6. **Accidental Release Measures**

   **Environmental precautions**
   No special environmental precautions required. Do not let product enter drains.

   **Methods for containment**
   Stop leak if you can do so without risk.

   **Methods for cleaning up**
   Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Sweep up or gather material and place in appropriate container for disposal. Avoid the generation of dusts during clean-up.

7. **Handling and Storage**

   **Handling**
   Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

   **Storage**
   No special storage conditions required. No special restrictions on storage with other products.

8. **Exposure Controls / Personal Protection**

   **Occupational exposure limits**

   **ACGIH**
<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUST (SEQ250)</td>
<td>TWA</td>
<td>3 mg/m3</td>
<td>Respirable particles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m3</td>
<td>Inhalable particles.</td>
</tr>
</tbody>
</table>

   **U.S. - OSHA**
<table>
<thead>
<tr>
<th>Constituents</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>INERT OR NUISANCE DUST (SEQ250)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Total dust.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 mppcf</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mppcf</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

   **Exposure guidelines**
   Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

   **Engineering controls**
   If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.

   **Personal protective equipment**
   - **Eye / face protection**
     Wear dust goggles. Eye wash fountain is recommended.
   - **Skin protection**
     Use of protective coveralls and long sleeves is recommended. Remove and wash contaminated clothing before re-use.
   - **Respiratory protection**
     Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
   - **General hygiene considerations**
     Handle in accordance with good industrial hygiene and safety practice.
9. Physical & Chemical Properties
   
   Appearance: Not available.
   Color: Tan.
   Odor: None.
   Odor threshold: Not available.
   Physical state: Solid.
   Form: Powder.
   pH: 3.5
   Melting point: Not available.
   Freezing point: Not available.
   Boiling point: Not available.
   Flash point: Not available.
   Evaporation rate: Not available.
   Flammability: Not available.
   Flammability limits in air, upper, % by volume: Not available.
   Flammability limits in air, lower, % by volume: Not available.
   Vapor pressure: Not available.
   Vapor density: Not available.
   Specific gravity: 2.2263 g/ml estimated
   Relative density: Not available.
   Solubility (water): 100 %
   Partition coefficient (n-octanol/water): Not available.
   Auto-ignition temperature: Not available.
   Decomposition temperature: Not available.
   VOC: 0 % estimated
   Percent volatile: 0 % estimated

10. Chemical Stability & Reactivity Information
   Chemical stability: Stable at normal conditions.
   Conditions to avoid: None known.
   Incompatible materials: None known.
   Hazardous decomposition products: None known.
   Possibility of hazardous reactions: Will not occur.

11. Toxicological Information
   Acute effects: Skin irritation Eye irritation
   Chronic effects: In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall
evaluation, IARC noted that “carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.” (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. “There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk...” (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

12. Ecological Information

Ecotoxicological data

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
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<tbody>
<tr>
<td>RM-10® 2009 (Mixture)</td>
<td>LC50 Fish: 21764 mg/l 96.00 Hours estimated</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Ecotoxicity

This material is not expected to be harmful to aquatic life. Components of this product have been identified as having potential environmental concerns.

Environmental effects

Ecological injuries are not known or expected under normal use.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

Yes
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
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</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of New and Existing Chemicals (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances Yes (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

### State regulations

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

### 16. Other Information

**Further information**

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### HMIS ratings

- **Health:** 1
- **Flammability:** 0
- **Instability:** 0

### NFPA ratings

- **Health:** 1
- **Flammability:** 0
- **Instability:** 0

### 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 manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user’s responsibility to verify the suitability and completeness of such information for each particular use.

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### Issue date

27-February-2009

### Other information

CETCO is an AMCOL International company.