



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** RM-10® 2008  
**Revision date** 02-01-2007  
**Chemical name** Dry Blend of Clay, Inorganic Salt, and Organic Polymer  
**CAS #** Mixture  
**Company information** CETCO  
Wastewater Treatment Products Group  
One North Arlington  
1500 West Shure Drive  
Arlington Heights, IL 60004  
USA  
**Emergency** CHEMTREC (Call Collect) +1 (703) 527-3887  
**General information** +44 (151) 606-5900

## 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** Prolonged and/or repeated skin contact may result in mild irritation or redness.
- 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.

**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%.

## 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

**Unusual fire & explosion hazards** This material will not burn.

**Extinguishing media**

- Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

## Protection of firefighters

**Protective equipment for firefighters** Material can be slippery when wet

## 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

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

### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWA (inhalable particles, recommended); 3 mg/m<sup>3</sup> TWA (respirable particles, recommended)

### Canada - Alberta - Occupational Exposure Limits - TWAs

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWA (total particulate); 3 mg/m<sup>3</sup> TWA (respirable particulate)

### Canada - British Columbia - Occupational Exposure Limits - TWAs

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWA (total dust); 3 mg/m<sup>3</sup> TWA (respirable fraction)

### Canada - Manitoba - Occupational Exposure Limits - TWAs

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWA (total dust containing no asbestos and <1% free silica)

### Canada - Ontario - Occupational Exposure Limits - TWAEVs

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWAEV (inhalable); 3 mg/m<sup>3</sup> TWAEV (respirable)

### Canada - Quebec - Occupational Exposure Limits - TWAEVs

Particulates (Inert Dust) RR-00072-6 10 Mg/m<sup>3</sup> TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)

### U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)

Particulates (Inert Dust) RR-00072-6 15 Mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

**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

**Color** Tan.  
**Form** Powder.  
**Odor** None.  
**Odor threshold** Not available  
**Physical state** Solid  
**pH** 3.5  
**Melting point** Not available  
**Freezing point** Not available  
**Boiling point** Not available  
**Flash point** Not available

<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.1 g/ml
<b>Solubility (H2O)</b>	100 %
<b>Octanol/H2O coeff</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>VOC (Weight %)</b>	0 % w/w

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	None known.
<b>Hazardous polymerization</b>	Will not occur.

## 11. Toxicological Information

**Toxicological information** 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.

**Acute effects** Acute LD50: 5252 mg/kg, Rat, Oral  
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

**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.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

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

#### Section 302 extremely hazardous substance

No

#### Section 311 hazardous chemical

Yes

### WHMIS status

Controlled

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Korean Inventory of Chemicals (KICS)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

### Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

### Further information

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

### HMIS ratings

Health: 2\*  
Flammability: 0  
Physical hazard: 0

### NFPA ratings

Health: 0  
Flammability: 0  
Instability: 0

**Disclaimer**

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.

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.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier.

**Issue date**

02-01-2007