



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** RESISTEX® 200R  
**Version #** 01  
**Issue date** 06-August-2013  
**CAS #** Mixture  
**Manufacturer information** CETCO  
2870 Forbs Avenue  
Hoffman Estates, IL 60192 United States  
safetydata@amcol.com  
<http://www.cetco.com/LT/>  
General Information (800) 527-9948  
Emergency (800) 424-9300

## 2. Hazards Identification

**Emergency overview** May be irritating to eyes.  
**OSHA regulatory status** This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Eye contact.  
**Eyes** May cause eye irritation.  
**Skin** Health injuries are not known or expected under normal use.  
**Inhalation** Prolonged inhalation may be harmful. Health injuries are not known or expected under normal use.  
**Ingestion** Health injuries are not known or expected under normal use.

## 3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.  
**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.  
**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.  
**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

## 5. Fire Fighting Measures

**Flammable properties** The product is not flammable. No unusual fire or explosion hazards noted.  
**Extinguishing media**  
**Suitable extinguishing media** Water.  
**Fire fighting equipment/instructions** In the event of fire, cool tanks with water spray.  
**Specific methods** Cool containers exposed to flames with water until well after the fire is out.  
**Hazardous combustion products** May include oxides of nitrogen.

## 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.  
**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

**Handling** Avoid prolonged exposure. Handle and open container with care.

**Storage** Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

**Engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

**Eye / face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Skin protection** Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations** Avoid contact with eyes.

## 9. Physical & Chemical Properties

**Appearance** The product consists of bentonite granules between geotextile layers

**Physical state** Solid.

**Form** Mat

**Color** Various.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Boiling point** Not available.

**Melting point/Freezing point** Not available.

**Solubility (water)** Not available.

**Specific gravity** 0.758220906 estimated

**Relative density** Not available.

**Flash point** Not available.

**Flammability limits in air, upper, % by volume** Not available.

**Flammability limits in air, lower, % by volume** Not available.

**Auto-ignition temperature** Not available.

### Other data

**Density** 0.76 g/cm<sup>3</sup> estimated

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

**Conditions to avoid** None under normal conditions.

**Incompatible materials** Not available.

**Hazardous decomposition products** Toxic gas. Nitrogen oxides (NO<sub>x</sub>).

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

## 11. Toxicological Information

**Local effects** May be irritating to eyes.

<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Due to lack of data the classification is not possible.
<b>Skin corrosion/irritation</b>	Due to lack of data the classification is not possible.
<b>Mutagenicity</b>	Due to lack of data the classification is not possible.
<b>Reproductive effects</b>	Due to lack of data the classification is not possible.

## 12. Ecological Information

<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation / Accumulation</b>	

## 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Not applicable.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

<b>US federal regulations</b>	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.
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### **Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))**

Not regulated.

### **DEA Essential Chemical Code Number**

Not regulated.

### **Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Not regulated.

### **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

### **CERCLA (Superfund) reportable quantity**

None

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

### **Inventory status**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No

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

\*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 and birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

2-Propenamide (CAS 79-06-1) Listed: January 1, 1990 Carcinogenic.

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

2-Propenamide (CAS 79-06-1) Listed: February 25, 2011 Developmental toxin.

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

2-Propenamide (CAS 79-06-1) Listed: February 25, 2011 Male reproductive toxin.

## 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
 Health: 0  
 Flammability: 0  
 Physical hazard: 0

**NFPA ratings**  
 Health: 0  
 Flammability: 0  
 Instability: 0

**Disclaimer**  
 The information in the sheet was written based on the best knowledge and experience currently available. 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 information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**This data sheet contains changes from the previous version in section(s):**  
 Product and Company Identification: Product and Company Identification  
 Composition / Information on Ingredients: Ingredients