

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### **Product Identification**

Product Name: OverKote Pavement Sealer, Loop Filler, Bumper Adhesive, Crack Filler  
Synonyms: Asphalt Sealcoat, Asphalt Filler, Asphalt Adhesive  
CAS Number: Blend

### **Company Identification**

Reed & Graham, Inc.  
690 Sunol Street  
San Jose, CA 95126 USA  
408-287-1400 (For product information)  
1-800-424-9300 CHEMTREC (for emergencies)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### **COMPONENT LISTING:**

| Chemical Name                    | Amount        | CAS Number   |
|----------------------------------|---------------|--------------|
| -----                            | -----         | -----        |
| ASPHALT (PETROLEUM)              | 40.0 - 70.0 % | 8052-42-4    |
| WATER                            | < 50.0 %      | 7732-18-5    |
| HYDROGEN SULFIDE                 | < 0.5 %       | 7783-06-4    |
| SODIUM HYDROXIDE                 | < 0.5 %       | 1310-73-2    |
| Confidential Ingredient A        | < 2.0 %       | Trade Secret |
| Confidential Ingredient B        | < 4.0 %       | Trade Secret |
| Confidential Ingredient C        | < 4.0 %       | Trade Secret |
| QUARTZ (SIO <sub>2</sub> )       | 0.0 - 20.0 %  | 14808-60-7   |
| CELLULOSE                        | 0.0 - 5.0 %   | 9004-34-6    |
| ETHANOL, 2-(HYDROXYMETHYLAMINO)- | < 0.2 %       | 34375-28-5   |
| LIMESTONE                        | 0.0 - 10.0 %  | 1317-65-3    |
| FELDSPAR-GROUP MINERALS          | 0.0 - 30.0 %  | 68476-25-5   |
| SILICA, AMORPHOUS                | 0.0 - 60.0 %  | 61790-53-2   |
| FULLER'S EARTH                   | 0.0 - 5.0 %   | 8031-18-3    |
| CARBON BLACK                     | 0.0 - 2.0 %   | 1333-86-4    |
| VINYL ACRYLIC LATEX              | 10.0 - 20.0 % | 25067-01-0   |

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

**COMPOSITION COMMENT:**

Concentration values are typical and may vary. Although specific identities of some product components are being withheld as trade secrets, known pertinent hazards are addressed in this MSDS.

Hydrogen sulfide may be present as a by-product of asphalt processing.

**HAZARDS DISCLOSURE**

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are hazards.

**MISCELLANEOUS:**

This material does not have established exposure limits.

**3. HAZARDS IDENTIFICATION**

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***** EMERGENCY OVERVIEW *****
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*                                CAUTION                                *
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HMIS Rating –

Health: 1  
Flammability: 0  
Reactivity: 0  
Personal Protection Index: 1

NFPA Rating –

Health: 1  
Flammability: 0  
Reactivity: 0  
Special Hazard: None

## **POTENTIAL HEALTH EFFECTS**

### **EYE:**

Direct contact may cause eye irritation. Exposure to vapors, fumes, or mists may cause irritation.

### **SKIN:**

Avoid prolonged or repeated contact with skin. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).

### **INHALATION:**

Avoid breathing vapors or mists. Prolonged or excessive inhalation may cause respiratory tract irritation.

Hydrogen sulfide can cause respiratory paralysis and death depending on the concentration and duration of exposure.

### **INGESTION:**

Substance may be harmful if swallowed.

### **SIGNS AND SYMPTOMS OF EXPOSURE:**

Vapors may have an offensive odor which may cause headaches, nausea, and vomiting. Symptoms of overexposure include: fatigue, tearing of eyes, burning sensation in the throat, cough, chest discomfort and skin irritation.

### **CHRONIC EFFECTS:**

No known hazards in normal industrial use.

### **CARCINOGENICITY INFORMATION:**

IARC has determined that there is inadequate evidence that asphalts are carcinogenic to humans. While brief or intermittent skin contact with this product is not expected to cause harm, those workers who do not practice good personal hygiene and who are exposed repeatedly via skin contact may be at risk.

Suspect cancer hazard (contains material which) may cause cancer: IARC has classified crystalline silica as a known human carcinogen. Procedures such as saw cutting or grinding which expose uncoated minerals may produce significant exposure to crystalline silica.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Disorders of the kidney, liver, skin and respiratory system.

## 4. FIRST AID MEASURES

### ***EYE CONTACT FIRST AID:***

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

### ***SKIN CONTACT FIRST AID:***

Wash skin with soap and water. Wear protective gloves to minimize skin contamination. DO NOT try to remove solidified material from the skin. DO NOT try to dissolve with solvents or thinners.

### ***INHALATION FIRST AID:***

Although this product is not known to cause respiratory problems, if breathing is difficult, safely remove victim to fresh air and provide oxygen. Get immediate medical attention.

### ***INGESTION FIRST AID:***

Get immediate medical attention. Do not induce vomiting due to danger of aspirating liquid into lungs. Gastric lavage may be required.

### ***STATEMENT OF PRACTICAL TREATMENT:***

Get prompt medical attention. Dilute with water. If solidified, treat as neat asphalt.

## 5. FIRE FIGHTING MEASURES

### ***FLAMMABLE PROPERTIES***

COC Flash Point: None  
TCC Flash Point: None  
Autoignition Temperature: N/A

### ***FLAMMABLE LIMITS IN AIR***

LEL: N/A  
UEL: N/A

### ***FLAMMABLE PROPERTIES:***

Product is an aqueous solution. Heated product may produce hazardous fumes, decomposition products or residues. Small quantities of hydrogen sulfide may be released upon heating.

**EXTINGUISHING MEDIA:**

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Exercise care when using water as contact with hot asphalt products may produce steam and violent foaming.

**FIRE FIGHTING INSTRUCTIONS:**

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Decomposition may produce fumes, smoke, oxides of carbon and hydrocarbons, and possible small quantities of hydrogen sulfide.

**COMBUSTION PRODUCTS:**

Avoid breathing vapors from heated material. Combustion may produce CO, NO<sub>x</sub>, SO<sub>x</sub> and reactive hydrocarbons.

## **6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Observe precautions in Protective Equipment section.

**INITIAL CONTAINMENT:**

Clean up spills immediately, observing precautions in Protective Equipment section. Contain spilled liquid with sand or earth.

**LARGE SPILLS PROCEDURE:**

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Large spillage should be dammed-off and pumped into containers.

**SMALL SPILLS PROCEDURE:**

Absorb spills with inert material.

## **7. HANDLING AND STORAGE**

**SHELF LIFE: (in original, sealed containers)**

6 months @ 40 C

**HANDLING (PHYSICAL ASPECTS):**

Use protective clothing impervious to this material.

**STORAGE PRECAUTIONS:**

Do not store at temperatures above 40°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **ENGINEERING CONTROLS:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **EYE / FACE PROTECTION REQUIREMENTS:**

Where contact with this material is likely, eye protection is recommended.

### **SKIN PROTECTION REQUIREMENTS:**

Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

### **RESPIRATORY PROTECTION REQUIREMENTS:**

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

### **EXPOSURE GUIDELINES:**

#### HYDROGEN SULFIDE

OSHA TWA: 10 ppm, 14 mg/m<sup>3</sup>

OSHA STEL: 15 ppm

#### SODIUM HYDROXIDE

OSHA PEL: 2 mg/m<sup>3</sup>

OSHA Ceiling Limit: 2 mg/m<sup>3</sup>

#### CARBON BLACK

OSHA PEL: 3.5 mg/m<sup>3</sup>

OSHA TWA: 3.5 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Slurry  
COLOR .....: Brown to Black  
ODOR .....: Asphalt Odor  
BOILING POINT .....: 100 C @ 760 mm Hg  
VAPOR PRESSURE .....: Same as water mm Hg @ 21 C  
VAPOR DENSITY .....: Same as water (Air = 1)  
SOLUBILITY IN WATER .....: Dispersible  
SPECIFIC GRAVITY .....: 2.0 - 2.7 (Water = 1)  
MELTING/FREEZING POINT .....: 0 C  
PH .....: 8-11  
% VOLATILES .....: <30 % @ 21 C @ 760 mm Hg  
VOLATILE ORGANIC COMPOUNDS (VOC) ....: <2%

## 10. STABILITY AND REACTIVITY

### **STABILITY:**

This compound is stable at ambient conditions.

### **POLYMERIZATION:**

Hazardous polymerization will not occur.

### **INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid contact with strong oxidizing agents.

### **DECOMPOSITION:**

Decomposition will not occur if handled and stored properly.

### **CONDITIONS TO AVOID:**

Avoid extreme temperatures.

## 11. TOXICOLOGICAL INFORMATION

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

## 12. ECOLOGICAL INFORMATION

### **ENVIRONMENTAL HAZARDS:**

This material should be prevented from uncontrolled applications to soil or earth. This material is a water pollutant and should be prevented from entering storm water and sewage drainage systems and bodies of water.

## 13. DISPOSAL CONSIDERATIONS

### **WASTE DISPOSAL:**

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Avoid disposal into waste water treatment facilities.

### **CONTAMINATED MATERIALS:**

Treat as product waste.

### **CONTAINER DISPOSAL:**

Uncleaned empty containers should be disposed of in the same manner as the contents.

## 14. TRANSPORTATION INFORMATION

PRODUCT LABEL .....: OverKote Pavement Sealer, Loop Filler, Bumper Adhesive, Crack Filler  
D.O.T. SHIPPING NAME ...: Non Regulated, Water Based Asphalt Emulsion  
D.O.T. HAZARD CLASS ....: Non-Hazardous

## 15. REGULATORY INFORMATION

### **EEC Symbols and Indications of Danger:**

Irritant (Xi)

### **WHMIS Hazard Symbols:**

None

### **Canadian Disclosure List**

QUARTZ (SiO<sub>2</sub>) (14808-60-7)

CARBON BLACK (1333-86-4)

### **CERCLA Hazardous Substances**

HYDROGEN SULFIDE (7783-06-4) -- RQ 100 lb

SODIUM HYDROXIDE (1310-73-2) -- RQ 1000 lb

### **RCRA Hazardous Substances**

HYDROGEN SULFIDE (7783-06-4) -- RCRA Code: U135

### **Title V**

HYDROGEN SULFIDE (7783-06-4)

### **SC Toxic Air Pollutants List**

HYDROGEN SULFIDE (7783-06-4)

SODIUM HYDROXIDE (1310-73-2)

## 16. OTHER INFORMATION

REASON FOR ISSUE .....: Update  
PREPARED BY.....: Eric Richard  
APPROVED BY.....: Mozammel Haq  
TITLE .....: Environmental Compliance & Risk Manager  
APPROVAL DATE .....: May 08, 2008  
SUPERCEDES DATE .....: August 14, 2007  
R&G MSDS NUMBER .....: 007 (Official Copy)

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