

MATERIAL SAFETY DATA SHEET

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Central Petroleum Company  
201 East Lincoln Street  
Walcott, IA 52773-0116

Phone Number: 563-284-6221  
Monday-Friday, 8:00 a.m. - 3:45 p.m. CST  
Fax Number: 563-284-5124  
Emergency:  
CHEMTREC 1-800-424-9300

Product Name: Columbia All Season Cement  
Common Name: Patching cement

Issued Date: 02/26/09  
Supersedes Date: 09/16/08

**Section 2: HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:

Appearance/Odor: Black viscous liquid (paste) with asphalt odor.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Health Effects: See Section 11 for more information

Likely Routes of Exposure:

- Eye: May cause eye irritation. Symptoms include stinging, watering, redness, and swelling.
- Skin: Prolonged or repeated contact may produce skin irritation. Symptoms include redness, itching, and burning. Prolonged or repeated skin contact may also produce dermatitis.
- Ingestion: Based on the presence of Stoddard Solvent, it is presumed that ingestion may irritate the mucous membranes of the mouth, throat, and esophagus. Symptoms include a burning sensation, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and delirium. If the Stoddard Solvent is aspirated into the lungs (during vomiting), severe lung damage or death may result.
- Inhalation: Breathing high concentrations of mist or vapors may be harmful. May irritate the throat and lungs. Breathing Stoddard Solvent vapors may cause central nervous system depression with symptoms including nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness. Intentional misuse by concentration of vapors and then inhalation can result in irregular heartbeats, which can cause death.

Medical Conditions Aggravated By Exposure:

Disorders of the skin, respiratory system, liver, kidneys, or central nervous system may be aggravated by exposure to this mixture or its components.

This material may contain components classified as nuisance particulates (listed "Total Dust" or "Respirable Dust" in Section 8), which may be present at hazardous levels only during sanding or abrading of the dried film.

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Target Organs:

Due to the presence of Stoddard Solvent, this material may cause damage to the kidneys, lungs, liver, mucous membranes, upper respiratory tract, central nervous system, or eyes.

This product contains carcinogens or potential carcinogens as listed by IARC, NTP, or OSHA.

Potential Environmental Effects:

Potentially toxic to freshwater and saltwater ecosystems.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS#</u>	<u>% by Wt.</u>
Asphalt	8052-42-4	>45
Stoddard Solvent (Mineral Spirits)	8052-41-3	<35
Magnesium Aluminum Silicate	8031-18-3	<10
Calcium Carbonate	1317-65-3	<10
Amorphous silica	7631-86-9	<10
Cristobalite (crystalline silica)	14464-46-1	<2
from partial conversion during calcining		
Quartz (crystalline silica)	14808-60-7	<1
from partial conversion during calcining		

**Section 4: FIRST AID MEASURES**

- Eye Contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention.
- Skin Contact: Remove contaminated clothing and wash before reuse. Remove excess from skin and wash with soap and water. Seek medical attention if irritation develops.
- Ingestion: Do NOT induce vomiting. If spontaneous vomiting occurs, keep victims head below knees. If victim is drowsy or unconscious, place on left side with head down. Do NOT administer anything by mouth to an unconscious person. Seek immediate medical attention.
- Inhalation: Move to fresh air. Give artificial respiration if victim is not breathing. If heart has stopped, immediately begin CPR. See immediate medical attention.

Note to Physicians:

Inhalation overexposure to Stoddard Solvent can produce toxic effects. Monitor for respiratory distress and treat accordingly. Ingestion of Stoddard Solvent poses a significant aspiration and chemical pneumonitis hazard. Monitor for respiratory distress and treat accordingly. Ingestion of Stoddard Solvent poses a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of body in Trendelenburg and left lateral decubitus position.

**Section 5: FIRE FIGHTING MEASURES**

Suitable Extinguishing Media:

Dry chemical, carbon dioxide, foam, steam, water fog.

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Protection of Firefighters:

Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

Hazardous Combustion Products:

Burning can produce carbon monoxide, carbon dioxide, smoke, fumes, and/or unburned hydrocarbons.

**Section 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions:

Remove all sources of ignition. Avoid breathing vapors. Use personal protection recommended in Section 8.

Environmental Precautions:

Ventilate area.

Methods for Containment and Clean-Up:

Contain and clean up with nonsparking tools.

**Section 7: HANDLING AND STORAGE**

Handling:

Use with adequate ventilation. Avoid prolonged or repeated skin contact. Avoid prolonged or repeated breathing of vapors.

Storage:

Keep away from heat, flame, sparks, and other sources of ignition. Store in a well-ventilated area. Keep containers tightly sealed.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines:

Asphalt

ACGIH TLV/TWA: 5 Mg/M<sup>3</sup> (Petroleum Asphalt Fume)

Stoddard Solvent

ACGIH TWA: 100 ppm

OSHA TWA: 100 ppm

MSHA TWA: 200 ppm

Magnesium Aluminum Silicate

ACGIH TLV: 10 Mg/M<sup>3</sup> (Total Dust)

OSHA PEL: 15 Mg/M<sup>3</sup> (Total Dust)

Calcium Carbonate

OSHA TLV: 10 Mg/M<sup>3</sup> (Total Dust)

Cristobalite

ACGIH: .05 Mg/M<sup>3</sup> (Respirable Dust)

Quartz

ACGIH: .1 Mg/M<sup>3</sup> (Respirable Dust)

Amorphous Silica

ACGIH: 10 Mg/M<sup>3</sup> (Total Dust)

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5 Mg/M<sup>3</sup> (Respirable Dust)

Nuisance Dusts

ACGIH TLV: 10 Mg/M<sup>3</sup> (Total Dust)  
OSHA PEL: 15 Mg/M<sup>3</sup> (Total Dust)

Engineering Controls:

Sufficient ventilation, in volume and pattern, should be provided to keep the vapor concentration below applicable OSHA requirements.

Eye/Face Protection:

Wear chemical splash goggles when eye contact is possible.

Skin Protection:

Avoid contact with skin or clothing. Wear protective clothing and gloves.

Respiratory Protection:

Use with adequate ventilation. If operating conditions cause high vapor concentrations, use NIOSH approved respirator.

When sanding or abrading the dried film, wear a NIOSH/MSHA approved dust/mist respirator to protect from dust that may be generated from this product, underlying paint, or the abrasive.

General Hygiene Considerations:

Wash hands before eating or using washroom. Smoke in smoking areas only.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Color: Black viscous liquid (paste).  
Odor: Asphalt odor.  
Odor Threshold: Not established.  
Physical State: Viscous liquid (paste).  
pH: Not available.  
Melting/Freezing Point: Not available.  
Boiling Points: Not available.  
Flash Point: > 110 °F (TCC).  
Evaporation Rate: Slower than ether.  
Flammability (solid, gas): Not applicable.  
Upper Flammability Limit: Not available.  
Lower Flammability Limit: Not available.  
Vapor Pressure: Not available.  
Specific Gravity: 1.05  
Solubility (H<sub>2</sub>O): Insoluble.  
Percent Volatile, wt %: 22%  
Volatile Organic Compound  
(VOC) Content: 227 g/l

**Section 10: STABILITY AND REACTIVITY**

Stability:

Stable.

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### Conditions to avoid:

Keep away from heat, flame, and other potential sources of ignition.

### Incompatible materials:

Components of this material are incompatible with hydrofluoric acid.

### Hazardous decomposition products:

Burning can produce carbon monoxide, carbon dioxide, smoke, fumes, and/or unburned hydrocarbons.

### Hazardous polymerization:

Will not occur.

## Section 11: TOXICOLOGICAL INFORMATION

Specific toxicity tests have not been conducted on this mixture. In accordance with OSHA's Hazard Communication Standard 1910.1200, this mixture is assumed to have the same health hazards as its significant components.

See Section 2 for specific effects and symptoms.

Irritation: Can cause eye, skin, and respiratory irritation.

Laboratory animals developed skin tumors after repeated application of asphalt over a lifetime. The tumors developed mainly at the site of exposure. The asphalt was not washed off in between exposures. Occasional skin contact with petroleum asphalt is not expected to have serious health effects when followed by good hygienic measures.

Lifetime inhalation studies have shown no carcinogenic effects. However, other lung damage was observed in test animals, including bronchitis, pneumonitis, and others similar to those caused by other irritants.

The IARC has found that there is limited evidence of carcinogenicity for undiluted steam-refined asphalts in laboratory animals, but inadequate evidence of carcinogenicity for it in humans.

### Neurological effects:

Breathing Stoddard Solvent vapors may cause central nervous system depression.

### Target organ effects:

Disorders of the skin, respiratory system, liver, kidneys, or central nervous system may be aggravated by exposure to this mixture or its components.

### Carcinogenicity:

This product contains carcinogens or potential carcinogens as listed by IARC, NTP, or OSHA.

Crystalline Silica is classified by the International Agency for Research on Cancer (IARC) as a Group 1 carcinogen.

## Section 12: ECOLOGICAL INFORMATION

Components of this mixture may be potentially toxic to freshwater and saltwater ecosystems.

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**Section 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state, and federal regulations.

**Section 14: TRANSPORT INFORMATION**

Shipping Description:

Combustible Liquid.

**Section 15: REGULATORY INFORMATION**

SARA 313 Information

This product does not contain any ingredients reportable under section 313.

**Section 16: OTHER INFORMATION**

NFPA 704: National Fire Protection Association

Health = 2      Flammability = 2      Reactivity = 1

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Disclaimer:**

This information has been compiled from sources considered to be dependable and is accurate to the best of Central Petroleum Company's knowledge; however, the Central Petroleum Company makes no warranty whatsoever, expressed or implied, of merchantability or fitness for particular purpose regarding the accuracy of such data or the results to be obtained from the use thereof. The Central Petroleum Company assumes no responsibility for injury to recipient or third persons or for any damage to any property and recipient assumes all such risks.