



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** STRATASEAL® HR  
**Version #** 14  
**Revision date** 09-August-2012  
**Chemical description** Polymer Modified Asphalt  
**CAS #** Mixture  
**Manufacturer information** CETCO  
Building Materials Group  
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Hoffman Estates, IL 60192 United States  
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<http://www.cetco.com/>  
General Information (800) 527-9948  
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## 2. Hazards Identification

**Emergency overview** When heated or cut, this product may release dust or fumes. If dust or fumes are inhaled, they may irritate the upper respiratory tract. Highly flammable.

**Potential health effects**

**Routes of exposure** Inhalation. Skin contact.

**Eyes** Exposure to hot material may cause thermal burns. Fumes released during thermal processing may cause eye irritation.

**Skin** When it is heated, this material may cause thermal burns. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Asphalt solutions are considered to be carcinogenic by repeated/prolonged skin contact, because of their polycyclic aromatic hydrocarbon content.

**Inhalation** Heating this product may release harmful vapors. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Prolonged or excessive inhalation may cause respiratory tract irritation.

**Ingestion** No hazard in normal industrial use.

**Target organs** Eyes. Lungs. Respiratory system. Skin.

**Chronic effects** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
ASPHALT	8052-42-4	20 - 40
		60 - 80

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Keep eye wide open while rinsing. Get medical attention immediately.

**Skin contact** For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. No attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh can be easily torn. Cool melted product on skin with plenty of water. Do not remove solidified product. Cover with clean cotton sheeting or gauze and get prompt medical attention.

Remove and isolate contaminated clothing and shoes. Contaminated leather articles, including shoes, that cannot be decontaminated should be discarded.

**Inhalation** If symptoms are experienced, remove source of contamination or move victim to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Call a physician if symptoms develop or persist.

**Ingestion**

If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Get medical attention immediately.

**Notes to physician**

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately. Keep under medical supervision for at least 48 hours.

For skin contact with hot material, do not peel the solidified material from the skin, or use solvents such as gasoline, kerosene, or paint thinner to remove. Cooled material may adhere so tenaciously to the skin that attempted removal may cause severe distress to the patient. Covering the affected area using commercially available preparations containing the emulsifying agent polysorbate or an antibiotic cream in a polysorbate base is the most effective method to dissolve the solidified asphalt. Asphalt can also be slowly dissolved with vegetable oil, baby oil, or mineral oil.

**5. Fire Fighting Measures****Flammable properties**

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing media****Suitable extinguishing media**

Dry chemical, carbon dioxide.

**Protection of firefighters****Protective equipment and precautions for firefighters**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**Fire fighting equipment/instructions**

Do not scatter spilled material with high pressure water streams. Cool containers with flooding quantities of water until well after fire is out. Water runoff can cause environmental damage.

**Hazardous combustion products**

Combustion products include fumes, smoke, carbon monoxide, carbon dioxide and sulfur dioxide.

**6. Accidental Release Measures****Personal precautions**

Keep unnecessary personnel away. Ventilate closed spaces before entering.

**Environmental precautions**

Prevent further leakage or spillage. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

**Methods for containment**

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Dike far ahead of liquid spill for later disposal. Do not allow the spilled product to enter public drainage system or open water courses. Spilled material will solidify. Allow to solidify, use mechanical handling equipment.

**7. Handling and Storage****Handling**

Avoid breathing vapors from heated material. Keep this product from heat, sparks, or open flame.

**Storage**

Keep in a dry, cool and well-ventilated place. Store away from strong oxidizers. Store in a place accessible by authorized persons only. Keep this material away from food, drink and animal feed. Keep away from heat and sources of ignition.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
ASPHALT (8052-42-4)	TWA	0.5 mg/m <sup>3</sup>	Inhalable fraction.
Additional components	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	3 mg/m <sup>3</sup>	Respirable particles.
		10 mg/m <sup>3</sup>	Inhalable particles.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Additional components	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Additional components	Type	Value	Form
INERT OR NUISANCE DUSTS (SEQ250)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.

Additional components	Type	Value	Form
		15 mg/m <sup>3</sup>	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
<b>Engineering controls</b>	Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.		
<b>Personal protective equipment</b>			
<b>Eye / face protection</b>	Wear chemical goggles. If splashes are likely to occur, wear: Face-shield.		
<b>Skin protection</b>	Wear appropriate chemical resistant gloves. When material is heated, wear gloves to protect against thermal burns.		
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.		
<b>General hygiene considerations</b>	When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material.		

## 9. Physical & Chemical Properties

<b>Appearance</b>	Solid.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Color</b>	Dark Brown to Black.
<b>Odor</b>	Petroleum
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	700 °F (371.11 °C) estimated
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	1.000000001 estimated
<b>Relative density</b>	Not available.
<b>Flash point</b>	283.67 °F (139.81 °C) estimated
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	905 °F (485 °C) estimated
<b>Viscosity</b>	<= 6000 cP
<b>Viscosity temperature</b>	370 °F (187.8 °C)
<b>Percent volatile</b>	0 % estimated
<b>Softening point</b>	200 °F (93.3 °C)
<b>Other data</b>	
<b>Density</b>	1.00 g/cm <sup>3</sup> estimated
<b>Flammability class</b>	Combustible IIIB estimated
<b>Flash point class</b>	Flammable IB

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Direct sources of heat.
<b>Incompatible materials</b>	Acids. Fluoride. Fluorine. Powerful oxidizers. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Possibility of hazardous reactions** Will not occur.

## 11. Toxicological Information

**Local effects** High concentration of vapors may cause irritation to eyes and respiratory system and produce narcotic effects.

**Carcinogenicity** This material contains petroleum asphalt. IARC has determined that there is inadequate evidence that undiluted, air-refined asphalt is carcinogenic to animals. There is only limited evidence that undiluted, steam-refined and cracking-residue asphalt are carcinogenic to animals. Additionally, IARC has concluded that there is inadequate evidence that asphalts alone are carcinogenic to humans.

Prolonged and repeated skin contact with some solvent extracts of asphalts have produced skin cancer in animals. IARC has concluded that there is sufficient evidence for the carcinogenicity of asphalt extracts in animals. Therefore, "cutbacks" (asphalts that are diluted, dissolved, or liquefied in hydrocarbon solvents) may also be implicated as potentially carcinogenic. While brief or intermittent skin contact with this type of 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.

Condensed asphalt fumes, which are generated under laboratory conditions and are chemically different from those found during typical asphalt operations, have been reported to cause bacterial mutations. However, inhalation of asphalt fumes by laboratory animals, during controlled studies, did not produce lung cancer. Additionally, human studies have not established a link between lung cancer and asphalt fume exposure to date.

This product may contain trace amounts of polynuclear aromatic hydrocarbons (PAHs) as naturally occurring constituents of crude oils from which asphalt is derived. Some PAHs have been shown to be carcinogenic after prolonged or repeated skin contact in laboratory animals. Cancer hazard.

## 12. Ecological Information

**Ecotoxicity** No data available for this product. Components of this product have been identified as having potential environmental concerns.

**Environmental effects** No data available for this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### DOT

#### Packages less than 83 lbs

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**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**

ASPHALT: 100.0000

**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** No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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

ASPHALT (CAS 8052-42-4)

Listed: January 1, 1990

**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: 1  
 Physical hazard: 0

**NFPA ratings**  
 Health: 1  
 Flammability: 1  
 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**

13-April-2006

**This data sheet contains changes from the previous version in section(s):**

Product and Company Identification: Alternate Trade Names