

Material Safety Data Sheet



IDENTITY:

Cationic Slow Set, Rapid Set, & Mixing Grade Asphalt Emulsion

Synonyms: SS-1, SS-1H, CSS-1, CSS-1H,
CRS-2, CMS-1, CMS-1W

Section I

Manufacturer	
Hills Materials Company	Emergency Telephone Number (605) 394-3300
P.O. Box 2320	Telephone Number for Information (605) 394-3320
Rapid City, SD 57709	Date Prepared November 13, 2002 (Revised)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	%
Asphalt Cement	8052-42-4	None	.5mg / m ³ (8hr.)	60%-70%
Water	7732-18-5	Not Established	Not Established	19%-39%
Petroleum Distillate	68476-34-6	Not Established	Not Established	0%-10%
Emulsifying Agents	Proprietary	N/A	N/A	.2%-1%

Section III—Physical/Chemical Characteristics

Boiling Point	> 212° F	Specific Gravity (H₂O = 1)	.95 – 1.2
Vapor Pressure (mm Hg)	.1 mm	Melting Point	N/A
Vapor Density (AIR = 1)	> 20	Evaporation Rate (Butyl Acetate = 1)	< .01

Solubility in Water

Up to 100%

Appearance and Odor

Viscous brown to black liquid, odor similar to that of asphalt

Section IV—Fire and Explosion Hazard Data

Flash Point (Open Cup) > 500° F	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Dry chemical or foam.			
Special Fire Fighting Procedures Use approved respirator			
Unusual Fire and Explosion Hazards Hydrogen Sulfide is produced when heated.			

Section V—Reactivity Data

Stability Stable	Conditions to Avoid Exposure to ignition sources, heat above 212° F.
Incompatibility (Materials to Avoid) Strong oxidizing agents	
Hazardous Decomposition or Byproducts Carbon monoxide, hydrogen sulfide	
Hazardous Polymerization Will not occur	Conditions to Avoid None

OSHA 174 Sept. 1985

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes	Skin? Yes	Ingestion? Unlikely
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Health Hazards

Acute: Fumes may cause irritation of eyes, skin, lungs
Heated emulsion will cause serious burns

Chronic: Fumes may cause pneumonitis, bronchial dilation,
congestion, necrosis, dermatitis, conjunctivitis

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure

Irritation of eyes, lungs, skin. Headache, nausea, dizziness.

Medical Conditions Generally Aggravated by Exposure

Pre-existing respiratory conditions

Emergency and First Aid Procedures

Eyes: Flush with clear water for at least 15 minutes until no residue remains. Contact physician immediately.

Skin: Flush area with great amounts of cool water. Seek medical attention immediately. Do not attempt to remove cooled material from skin.

Inhalation: Move victim from exposure area to fresh air. Resuscitate if needed. Contact physician immediately.

Ingestion: Do not induce vomiting. Contact physician immediately.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Remove ignition sources. Use absorbent material to recover liquid material. Dike around area of spill. Pick up semi-solid cooled material.

Waste Disposal Method

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

Precautions to Be Taken in Handling and Storing

Avoid exposure to hot material. Avoid breathing vapors in confined area. Avoid heating about 212° F.

Other Precautions

None

Section VII—Control Measures

Respiratory Protection

Use NIOSH approved respiratory protection, air-supplied respiratory protection in confined areas.

Ventilation:	Local Exhaust Yes	Special Explosion-proof ventilation
	Mechanical (General) Explosion-proof	Other

Protective Gloves Yes	Eye Protection Yes
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Other Protective Clothing or Equipment

Long sleeved shirts, long pants, aprons or coveralls

Work/Hygienic Practices

Assure effectiveness of respiratory protection. Wash skin with soap and water.

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