

MATERIAL SAFETY DATA SHEET
SS-1H Tack

Date last revised: 12-4-01

Doc Code: MSDS-SS

I. General Information

Chemical Name & Synonyms
Asphalt Emulsion

Trade Name & Synonyms
SS-1, SS-1h, "tack".

Hazardous Materials Identification System (HMIS)

HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION
1	1	0	PP-E

Proper DOT Shipping Name
N/A

DOT Hazard Classification
N/A

Manufacturer
E.A. Mariani Asphalt Co., Inc.

Manufacturer's Phone #
(813) 623-3941

Manufacturer's Address
5201 Causeway Blvd
Tampa, FL 33619

Emergency Phone
Infotrac #
1-800-535-5053

II. Hazardous Ingredients

<i>Ingredient</i>	<i>CAS NO.</i>	<i>Percent</i>	<i>Threshold Limit Value</i>
Asphalt	8052-42-4	55-70	5 mg/m ³

III. Physical Data

<i>Boiling Point (°F)</i> IBP 212°F+	<i>Specific Gravity (H₂O=1)</i> 0.99
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<i>Vapor Pressure (mm HG.)</i> Not Determined	<i>Percent Volatile by Volume</i> Not Determined
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<i>Vapor Density (Air =1)</i> >1	<i>Evaporation Rate (butyl acetate=1)</i> <1
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<i>Solubility in Water</i> 100% as a dispersion	<i>pH</i> 8-11
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Appearance & Odor
Viscous brownish-black liquid at room temperature, musty petroleum-like odor.

IV. Fire & Explosion Hazard Data

<i>Flash Point (Test Method)</i> >200°F	<i>Auto Ignition Temperature</i> Not Determined
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Note: Product is an aqueous dispersion and does not support combustion.

<i>Flammable Limits</i> N/A on emulsions Residue:	<i>LEL</i> 0.9%	<i>UEL</i> 7.0%
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Extinguishing Media
N/A on emulsions, however, on emulsion residue, foam, water spray (fog), dry chemical, carbon dioxide, and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires of this type of project, depending on size or potential size of fire and circumstances related to the situation.

Special Fire Fighting Procedures

Use water to keep exposed containers cool to reduce pressure. Use of air supplied breathing equipment and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire & Explosion Hazards

Avoid breathing vapors. Toxic fumes may be emitted

V. Health Hazard Data

Carcinogen- NTP Program

No

Carcinogen- IARC Program

No

*Symptoms of Exposure, First Aid, and Protection***EYES**

Contact with eyes may cause irritation, burning, and redness. Flush eyes immediately with water for 15 minutes. Hold eyelids apart during flushing. Seek medical attention promptly. Wear splash resistant eye protection such as safety goggles.

SKIN

Contact with skin may cause skin irritation and redness. May aggravate existing dermatitis. Flush with water immediately. Remove residue with mineral oil and/or waterless hand cleaners. Do not use solvents. Avoid skin contact. Wear protective clothing such as gloves, long sleeve shirts, long pants, and hats. Follow good industrial hygiene practices.

INHALATION

Very low vapor pressure. Harmful effects not expected. Chronic inhalation overexposure should be avoided by adequate ventilation. In cases of overexposure remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek medical attention.

INGESTION

Ingestion is unlikely. May cause gastrointestinal complications. The asphalt may coalesce and cause blockage of digestive tract. Seek medical attention promptly.

Additional Health Data

No association has been established between industrial exposure to petroleum asphalt and cancer in humans. Asphalt contains small amounts of polynuclear aromatic hydrocarbons (PNA'S) which, when concentrated, have been shown to cause skin cancer in mice after prolonged and frequent contact. Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate. This product is an asphalt emulsion. We strongly recommend that all exposure to this product be minimized by following the protection precautions outlined in this bulletin. Brief or intermittent skin contact with this asphalt product is not expected to produce any serious effects. Skin contact and breathing of fumes, mist, or vapors should be reduced to a minimum. We strongly recommend that the precautions outlined in this bulletin be followed when handling this material.

Variability among individuals: Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mist, or fumes should be minimized.

Note: The hazard determinations of this product are based on information from one or more of the following: hazards of similar products, hazards of the ingredients, and/or technical literature. Some of the physical tests, such as flash point, may have been performed on this product.

VI. Reactivity Data

Stability \ Unstable
/ Stable

Conditions To Avoid
Temperatures above 212°F and below freezing.

Incompatibility/Materials to Avoid

Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, or calcium hypochlorite.

Hazardous \ May Occur
Polymerization / Will Not Occur

Conditions To Avoid
N/A

Hazardous Decomposition Products

N/A on emulsions, however, on emulsion residues, fumes, smoke, carbon monoxide, hydrogen sulfide, sulfur oxides, aldehydes, and other decomposition products, in the case of incomplete combustion.

VII. Environmental Protection Procedures

Spill Response

Recover free product. Add absorbent (sand, earth, sawdust, etc.) to spill area. Product may solidify depending on external conditions. Keep petroleum products out of sewers and watercourses by diking or impounding. Observe government regulations.
CAUTION: Asphalt emulsion spills initially may be slippery!

Waste Disposal Method

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste disposal site or facility. Asphalt emulsion residue does not currently meet the criteria for hazardous waste.

VIII. Special Protection Information

Eye Protection

Use splash goggles or face shield when eye contact may occur.

Skin Protection

Use chemical-resistant waterproof gloves to avoid skin contact.

Respiratory Protection (Specific Type)

Not normally needed. Use supplied-air respiratory protection in confined or enclosed spaces when handling product or when H₂S exceeds permissible limits.

Ventilation Recommended

- 1) Local exhaust not normally needed unless TLV limits in section II are exceeded.
- 2) Special: provide greater than 60 fpm hood or face velocity for confined spaces when handling product.

Other Protection

Use chemical-resistant apron and other clothing to protect against liquid and to avoid skin contact.

IX. Special Precautions

Hygienic Practices In Handling & Storage

Keep container closed when not in use. Store in cool, ventilated building. Remove contaminated clothing and launder before reuse. Wash skin thoroughly with soap and water after handling. Transport, handle, and store in accordance with applicable DOT and OSHA regulations.

Precautions For Repair & Maintenance Of Contaminated Equipment

CONTAINER WARNING: containers, regardless of being empty, half full, or full of product, may retain a residue of liquid and/or vapor and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. Empty pails should have a hole punched in the pail bottom to prevent drowning of small children. All other containers should be disposed in an

environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to OSHA regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

*Container refers to any vessel, can, drum, tanker, distributor tank, etc., that may be used for handling and/or storing any of the products covered by this material safety data sheet.

Other Precautions

None known.

X. Special Precautions

Regulatory Status

The information herein is given in good faith, but no warranty, expressed or implied, is made.