



SIGNS AND SYMPTOMS OF EXPOSURE: Skin – contact with hot product may cause thermal burns. Prolonged or repeated contact with cool product might cause irritation. Asphalt emulsions have not been investigated for possible carcinogenicity.

INGESTION: Emulsions may cause nausea and irritation of gastrointestinal tract.

INHALATION: Excessive exposure to fumes, vapors or mists may cause some respiratory discomfort of the mucous membranes. Asphalt, when heated, releases various concentrations of hydrogen sulfide (H<sub>2</sub>S) gas. H<sub>2</sub>S is an extremely toxic and flammable gas that at low concentrations is irritating to the respiratory tract and has a rotten egg odor. Odor cannot be relied on as a means of detection because at higher concentrations of 500 to 1,000 ppm it may lead to unconsciousness, respiratory paralysis and death.

EMERGENCY AND FIRST AID PROCEDURES: Inhalation – if overexposure occurs, removed individual to fresh air. If discomfort continues, seek medical attention.

EYES: Flush eyes immediately with copious amounts of water at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: Hot product should be cooled with water. Clean skin with waterless type hand cleaner followed by soap and water. If irritation or burn develops, seek medical attention. Cool product may be cleaned with waterless type hand cleaner.

INGESTION: If material is swallowed do not induce vomiting. Treat symptomatically and get medical attention.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

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#### SECTION 7 - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: Normally not needed, but if conditions warrant use organic vapor respirators.

VENTILATION LOCAL EXHAUST: As needed to remove mists or vapors.

PROTECTIVE GLOVES: Impervious coating

EYE PROTECTION: Chemical goggles or safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Appropriate clothing to prevent repeated or prolonged contact with skin.

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#### SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid heated product fumes.

OTHER PRECAUTIONS: Observe good personal hygiene. Launder contaminated clothes before reuse. Do not wear leather shoes or boots that have become saturated with product.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Create dikes or ponds as soon as possible. Use earth, sawdust or sand to make dikes or to use as absorbent. Upon absorption, material will revert to asphalt state and can be removed with absorption material.

WASTE DISPOSAL METHODS: Emulsion can be mixed with any stabilizing matter (e.g., rock, gravel or sand) in order to change its state from a liquid into a solid. This material can then be disposed of at an approved landfill.

EXPLANATION OF ABBREVIATIONS: N/D: not determined - N/A: not applicable – TLV: threshold limit value – TWA: time weighted average

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