

## HAZARDS IDENTIFICATION

### \*\*\* EMERGENCY OVERVIEW \*\*\*

#### Potential Health Effects

HMIS	
H	2
F	1
R	0
PPE*	
*Sec. 8	

**Primary Entry Routes:** Inhalation, Skin if product is in liquid state.

**Inhalation:** Inhalation of mists, vapors or fumes may cause headache nausea, and dizziness. Prolonged exposure to hot asphalt fumes may produce respiratory irritation, pulmonary edema and hypoxia.

**Eyes:** Exposure to mists, vapors or fumes may cause irritation. Direct contact with hot material will cause thermal burns and possible blindness.

**Skin:** Direct contact with hot material will cause thermal burns. Prolonged exposure may cause dermatitis, drying or irritation.

**Ingestion:** None expected. Ingestion of hot material will cause thermal burn. Ingestion may cause gastrointestinal disturbances, irritation, nausea, vomiting, blockage and diarrhea.

**Carcinogenicity:** There is inadequate evidence that bitumens alone are carcinogenic to humans. There is sufficient evidence for the extracts of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam- and air-refined bitumens in experimental animals. There is limited evidence for the carcinogenicity of undiluted steam-refined bitumens and for cracking residue bitumens in experimental animals.

**Medical Conditions Aggravated by Long-Term Exposure:** Respiratory irritation and dermatitis.

## FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Apply artificial respiration if necessary. Seek medical attention.

**Eye Contact:** Flush thoroughly with water. If hot material contacts eyes, flush continuously with water and seek medical attention.

**Skin Contact:** If burned by hot product, cool affected area with cool water. Do not attempt to remove solidified material from skin as the damaged skin may be easily torn. Do not use solvents. Seek medical attention.

**Ingestion:** Do not induce vomiting. Seek medical attention.

## FIRE-FIGHTING MEASURES

**Flash Point:** >400F minimum

**Autoignition Temperature:** >700F

**Lower Explosive Level (LEL):** Not determined

**Upper Explosive Limit (UEL):** Not determined

**Flammability Classification:** Class III B Combustible

**Extinguishing Media:** Dry chemical, Carbon Dioxide



**Unusual Fire or Explosion Hazards:** This product may ignite when sufficient heat is applied. Smoke from fire may be hazardous.

**Combustion Products:** Carbon Monoxide, Carbon Dioxide, Sulfur Dioxide, Hydrogen Sulfide and other decomposition products of hydrocarbons.

**Fire-Fighting Instructions and Equipment:** Use of foam or water may cause frothing. Do not release runoff from fire control to sewers or waterways. Use a water spray to cool fire exposed containers. Use air supplied breathing in enclosed areas where heavy smoke may occur.

## ACCIDENTAL RELEASE MEASURES

**Spill/Leak Procedures:** Stop spill at source. Shut off sources of ignition. Confine spill by diking or impoundment. Allow material to cool and scrape up material for disposal. Clean up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing mists, vapors or fumes. Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29

regarding solid waste.

## HANDLING AND STORAGE

**Handling and Storage Precautions:** Unheated material presents no known hazards.

## TOXICOLOGICAL INFORMATION

**Carcinogenicity:** There is inadequate evidence that bitumens alone are carcinogenic to humans. There is sufficient evidence for the extracts of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam- and air-refined bitumens in experimental animals. There is inadequate evidence for the carcinogenicity of undiluted air refined bitumens in experimental animals. There is limited evidence for the carcinogenicity of undiluted steam-refined bitumens and for cracking residue bitumens in experimental animals.

**Component:** Asphalt Cement

**Toxic dose-LD 50:** 5/15mg.kg (oral rat)

**Eye / Face Protection:** Safety glasses or goggles and face shield.

**Skin Protection:** Use gloves that protect against thermal burns when handling hot material. At a minimum wear long sleeved cotton shirt buttoned at the collar and full length cotton pants. Synthetic fibers can melt and adhere to the skin when heated. Do not fold back or roll up cuffs.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH approved respirator.

## DISPOSAL CONSIDERATIONS

This product, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261).

Under the Resource Conservation and Recovery Act, it is the responsibility of the user to determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.