



BITUMIX
(PRIVATE) LIMITED

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: Bitumen emulsion

MSDS NUMBER: 301

MSDS DATE: 25/10/2011

KEY NUMBER: 300

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BITUMIX (PRIVATE) LIMITED

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HEALTH	1 Slightly hazardous
FIRE	0 Will not burn
REACTIVITY	0 Stable
SPECIFIC	-

1. IDENTIFICATION

CHEMICAL NAME : Cationic Bitumen emulsion
 CHEMICAL FAMILY : Mixture
 CAS NUMBER : N.A.
 CAS NAME : Petroleum hydrocarbon
 SYNONYMS : Cationic asphalt emulsion, CRS-1,CRS-2,CSS-1,CSS-1H
 DOT INFORMATION : D.O.T.HAZARD CLASS: Non Hazardous

2. PHYSICAL DATA

BOILING POINT : 212 °F
 FLASH POINT : >400 °F
 VAPOR PRESSURE : N.A.
 VAPOR DENSITY (AIR=1) : N.A.
 SOLUBILITY IN WATER : Disperses in water
 APPEARANCE : Dark Brown to Black Liquid
 ODOR : Mild Petroleum (Tar Like)
 SPECIFIC GRAVITY (WATER=1) : N.A.
 AUTOIGNITION TEMP : N.A.
 PHYSICAL HAZARD : Thermal burn hazard

3. INGREDIENTS

Material/Components	CAS#	CAS Name	TLV Units	Approx,%
ASPHALT	8052-42-4	Petroleum Asphalt	0.5 mg/m ³ (fumes)	
WATER	7732-18-5		NA	
EMULSIFIER	Proprietary mixture		NA	

OTHER INGREDIENT INFORMATION: Asphalt is a complex mixture of paraffinic, aromatic, and naphthenic hydrocarbons. At high temperatures, petroleum asphalt fumes (CAS No. 8052-42-4) may be present. NIOSH has a ceiling limit of 5 mg/m³ for asphalt fumes. The various grades of cationic asphalt emulsion differ in viscosity; all are essentially the same in composition.

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Flash point: None

- EXTINGUISHING MEDIA** : Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Exercise care when using water as contact with hot asphalt products steam and violent foaming.
- SPECIAL FIRE FIGHTING PROCEDURES** : As in any fire, wear self-contained breathing apparatus pressure-demand NIOSH (approved or equivalent) and full protective gear. Decomposition may produce fumes,smoke,oxides of carbon and hydrocarbons, and possible small quantities of hydrogen sulfide.
- UNUSUAL FIRE & EXPLOSION HAZARDS** : Product is an aqueous solution. Heated product may produce hazardous fumes, decomposition products or residues. Small quantities of hydrogen sulfide may be released upon heating.

5.HEALTH HAZARD DATA

- INHALATION** : Avoid breathing vapors or mists. Prolonged or excessive inhalation may cause respiratory tract irritation.
- SKIN CONTACT** : Avoid prolonged or repeated contact with skin. Prolonged or repeated contact may irritate the skin and cause a skin rash (dermatitis).
- EYE CONTACT** : Direct contact may cause irritation. Exposure to vapors, fumes, or mists may cause irritation. Contact with heated material may cause eye burns and permanent tissue damage.
- INGESTION** : Substance may be harmful if swallowed, irritating to mouth, throat, and stomach.
- DELAYED EFFECTS** : **SEEK MEDICAL ATTENTION**
- MEDICAL CONDITIONS AGGREGATED BY EXPOSURE** : Disorders of kidney .liver, skin and respiratory system

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6.FIIRST AID MEASURES

INHALATION : At elevated temperatures may cause irritation of the eyes and respiratory tract. Although this product is not known to cause respiratory problems, if breathing is difficult, safety remove victim to fresh air and provide oxygen.

SKIN CONTACT : Wash skin with soap and water. Wear protective gloves to minimize skin contamination. For hot materials exposure, DO NOT attempt to remove solidified material from the skin. DO NOT attempt to dissolve with solvents or thinners.

EYE CONTACT : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Burns due to contact with heated material require immediate medical attention.

INGESTION : Get immediate medical attention. Do not induce vomiting due to danger of aspirating liquids in to lungs. Gastric lavage may be required.

NOTES TO PHYSICIANS : THIS PRODUCT IS ASPHALT SEALER, IT IS COLD APPLIED, THIS PRODUCT DOESN'T HAVE ESTABLISHED EXPOSURE LIMITS.

7.REACTIVITY DATA

STABILITY : Yes at ambient temperature

INCOMPATIBILITY : Oxidizing agents, solvents

HARZADOUS COMBUSTION OR
DECOMPOSITION PRODUCTS : Will not occur

HARZADOUS POLYMERIZATION : Will not occur

CONDITIONS TO AVOID : Extreme temperatures

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ACTIONS TO TAKE FOR LEAKS & SPILLS : Stop leak at once. Dam area with soils or sand or earth. Pump any pooled product into barrels or a tank. Clean area by hand, (no water) uses all safety measures when handling products.

WASTE DISPOSAL METHOD : Spread product on level ground, when fully dried mix into broken asphalt and recycle, with approval from land fill. Never allow product to enter waste water facilities.

9.SPECIAL PROTECTION PROCEDURES

RESPIRATORY PROTECTION : When there is potential for airborne exposures in excess of applicable limits. Wear NISOH/MSHA approved respiratory protection.

EYE PROTECTION : Where contact with material is likely, eye protection is recommended.

SKIN PROTECTION : Selection of specific items such as gloves,boots,apron, or full body suit will depend on operation and potential exposure

OTHER CLOTHING : Use sun screen when working in direct sun light

OTHER EQUIPMENT : Were an approved NIOSH respiratory when an airborne exposure of excess limits.

ENGINEERING CONTROLS : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower, and a first aid station

10.HANDLING AND STORING

SPECIAL PRECAUTIONS : Use protective clothing

OTHER PRECAUTIONS : NEVER ENTER INTO A MIXING TANK

11.REGULATORY INFORMATIONS

WORKPLACE CLASSIFICATION : Stable

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12.TOXICOLOGICAL INFORMATION

ACUTE DATA : Irritating, and may injure eye tissue if not removed promptly.
REPRODUCTIVE/
TERATOLOGY DATA : Not tested

13.ECOLOGICAL INFORMATION

FATE IN THE ENVIRONMENT : This material should be prevented from uncontrolled applications to soil or earth. This material is a water pollutant and should be prevented from entering storm water, sewage drainage systems and bodies of water.

14.DISPOSAL CONDITIONS

PROCEDURES : Treat product as waste. See local state laws in disposal of product. User is responsible for disposal

15.TRANSPORTATION INFORMATIONS

DOT CLASSIFICATIONS : D.O.T .SHIPPING NAME: Non regulated, water based bitumen emulsion.

16.OTHER INFORMATIONS

DISCLAIMER : The information contained herein based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health ,safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of products.