



MATERIAL SAFETY DATA SHEET

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BITUMIX
(PRIVATE) LIMITED

PRODUCT NAME: Bitu Primer & BBS

MSDS NUMBER:1101

MSDS DATE:26/10/2013

KEY NUMBER: 1100

EMERGENCY PHONE NOS:0722240241

Tel : 011 2752902/3

Fax : 011 2752904

E-mail: ashoka@bitumix.lk

BITUMIX (PRIVATE) LIMITED

Stage 2 , Templeburg Industrial Estate,
Panagoda, Homagama,Sri Lanka.

www.bitumix.lk

HEALTH	1 Slight
FIRE	2 Moderate
REACTIVITY	0 stable
SPECIFIC	

1. IDENTIFICATION

MATERIAL NAME : Bitu Primer & Bituminous Solution
 PRODUCT FAMILY : Asphalt mixture
 CAS NUMBER : Mixture

2. PHYSICAL DATA

PHYSICAL STATE : Free-flowing liquid at 140°F, Viscous liquid at 70°F
 COLOR : Dark brown to black
 ODOR : Strong petroleum odor at temperatures above 100°F
 SPECIFIC GRAVITY : 0.84 – 0.94 (Water=1.00)
 PH : NA
 FLASH POINT : Above 35°C
 FREEZING POINT : NA
 VAPOR DENSITY : >1.6 (Air=1)
 VAPOR PRESSURE : approx. 25 mm Hg at 68°F (20°C)
 VOLATILITY : Volatile
 SOLUBILITY : Soluble in petroleum solvents
 VISCOSITY : 20-50 mm²/sec at 140°F (60°C) [Kinematic]
 ADDITIONAL PROPERTIES : No additional information

3. INGREDIENTS

Material/Components	CAS#	CAS Name	Concentration %
Petroleum Asphalt	8052-42-4	Asphalt	50-70
Petroleum Distillate	N/A	N/A	30-50
Additives	NA	NA	1-5

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4. FIRE AND EXPLOSION HAZARD DATA

- FIRE HAZARD :** Flammable liquid. In a fire or if heated a pressure increase will occur and the container may burst with risk of explosion. Vapors are heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel to a source of ignition and flash back. Runoff to sewer may create a fire or explosion hazard.
- EXTINGUISHING MEDIA :** Dry chemical foam, carbon dioxide or water fog. Use of directly applied water is not recommended
- ADDITIONAL ADVICE :** Carbon dioxide, carbon monoxide, oxides of sulfur and/or nitrogen, unburned Products hydrocarbons and smoke/fumes. At elevated temperatures hydrogen sulfide and other sulfur-containing gases may be produced. NIOSH approved positive-pressure breathing apparatus with full face mask and full protective equipment

5. HEALTH HAZARD DATA

- INHALATION :** May cause nasal and respiratory tract irritation. Possible central nervous system effects include excitation, euphoria, dizziness, blurred vision, fatigue, and headache. Long-term and/or high concentration exposure to vapors may result in tremors, convulsions, seizures, loss of consciousness, coma, respiratory arrest, cardiac arrhythmia or death
- SKIN CONTACT :** Product is stored and used at elevated (140°F-290°F) and thermal burns up to 3rd degree are possible. Prolonged/repeated contact may cause irritation, cracking, redness, itching, dermatitis or possible secondary infection.
- EYE CONTACT :** At ambient temperature may cause severe irritation, redness, tearing, blurred vision and conjunctivitis. At elevated temperatures product will cause thermal burns.
- INGESTION :** Product may be harmful or fatal if swallowed. May cause nausea, diarrhea, or restlessness. Aspiration into lungs may cause chemical pneumonitis or pulmonary edema which can be fatal. May cause central nervous system effects similar to those listed under "inhalation"

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6. FIRST AID MEASURES

- INHALATION : Remove to fresh air. If breathing is difficult or has stopped, clear the airway and administer oxygen, apply artificial respiration or cardiopulmonary resuscitation
- SKIN CONTACT : For skin contact with hot product, immediately immerse or drench the affected area with water for cooling and seek immediate medical attention. For skin contact with material at ambient temperature clean with a cleaner approved for cleaning oil, grease and petroleum from skin. If irritation persists/ develops or other symptoms described under Potential Acute Health Effects develop seek medical attention. Remove contaminated clothing and clean before reuse. Discard contaminated leather goods.
- EYE CONTACT : Flush with cold water or saline solution for at least 15 minutes. Seek immediate medical attention.
- INGESTION : **Do not induce vomiting.** If victim is conscious vegetable oil or charcoal slurry may be administered to retard absorption. Do not give anything by mouth if the person is unconscious. Seek immediate medical attention.

7. REACTIVITY DATA

- STABILITY : Stable
- INCOMPATIBILITY : Strong oxidizers
- HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS : Combustion may produce CO_x, NO_x, SO_x, unburned hydrocarbons, smoke, fumes, hydrogen sulfide
- HAZARDOUS POLYMERIZATION : Not expected to occur
- CONDITIONS TO AVOID : Keep away from all possible sources of ignition. Keep away from extreme heat, strong acids and strong oxidizers

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8.SPILL OR LEAK PROCEDURES

ACTIONS TO TAKE FOR LEAKS & SPILLS : Remove all potential sources of ignition. For spills on land contain with dikes of earth or sand and do not allow to enter waterways or sewer. For spills on water contain as much as possible with booms. Use spark-proof tools and explosion-proof equipment. In all cases stop the leak only when it is safe to do so.

WASTE DISPOSAL METHOD : Disposal of this product, solutions and any by-products should at all times comply with Local, State and Federal Regulations.

9.SPECIAL PROTECTION PROCEDURES

RESPIRATORY PROTECTION : With adequate ventilation a respirator is usually not required. The contaminant air concentrations determine the level of respiratory protection involved. In those cases where exposure exceeds the occupational limits, NIOSH.MSHA approved respiratory equipment for the hazard should be used.

EYE PROTECTION : The minimum recommended PPE is safety glasses. A suitable eye wash station should be located in the vicinity of the work area.

SKIN PROTECTION : Impervious chemical-resistant gloves should be worn when handling this Product **Standard** work clothing is recommended under normal working conditions

ENGINEERING CONTROLS : Use only with adequate ventilation. Exhaust ventilation/engineering controls need to keep vapor and gas concentrations below recommended limits and below any lower explosive limits

10.HANDLING AND STORING

SPECIAL PRECAUTIONS : Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Wash thoroughly after handling. Use only in well-ventilated locations. Keep away from any sources of ignition. Ground lines, containers and other equipment used during product transfer to reduce risk of a static-induced spark. Empty containers will contain product residue and vapors and may explode if heated or exposed to an ignition source. Do not cut, grind, weld, braze, solder or drill on containers until properly ventilated and free of all flammable vapors and residues. Keep away from sources of ignition and incompatible materials.

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11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY : Fumes have been associated with eye, skin and respiratory tract irritation. Repeated or prolonged contact with asphalt at ambient temperatures can result in skin irritation. Long-term exposure can cause dermatitis, acne, photosensitization and, more rarely, pigmentation of the skin. Acute or chronic overexposure may cause systemic toxicity including adverse effects to the liver, kidney, and skin, respiratory and nervous systems. The IARC has determined that there is sufficient evidence for the carcinogenicity of extracts of stream and air-refined bitumens and pooled mixtures of both based on animal tests. There is limited evidence for the carcinogenicity of undiluted stream-refined bitumens based on animal tests. The IARC has also determined that there is inadequate evidence the bitumen alone are carcinogenic to humans.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE : The biodegradation of this product is expected to be slow. This product is not expected to bio accumulate through food chains in the environment.

13. DISPOSAL CONDITIONS

PROCEDURES : Disposal of this product, solutions and any by-products should at all times comply with Local Regulations.

14. TRANSPORTATION INFORMATIONS

PROPER SHIPPING NAME : Tars, liquid (cutback asphalt)

DG CLASS / DIVISION : 3 (flammable)

15. 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.