



**BITUMIX**  
(PRIVATE) LIMITED

# MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: Bitumix Bituminous Marker Adhesive

MSDS NUMBER:902

MSDS DATE:26/10/2013

KEY NUMBER: 1000

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## BITUMIX (PRIVATE) LIMITED

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[www.bitumix.lk](http://www.bitumix.lk)

HEALTH

1 Slightly

FIRE

1 Slightly

REACTIVITY

0 Stable

SPECIFIC

### 1. IDENTIFICATION

MATERIAL NAME : Bituminous Marker Adhesive

OTHER NAMES : Pavement Marking Adhesive

PRODUCT NAME : Bitumix Bituminous Marker Adhesive

### 2. PHYSICAL DATA

APPEARANCE : Black Solid & Asphalt Odor

FLASH POINT, CLEVELAND COC : 260 °C minimum

BOILING POINT : Wide Range

WATER SOLUBILITY : Negligible

SPECIFIC GRAVITY @ 25°C : 1.5 – 2.0

### 3. INGREDIENTS

A blend of components derived from crude petroleum oil and inorganic fillers. The product contains no dangerous or carcinogenic substances.

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**4.FIRE AND EXPLOSION HAZARD DATA**

**FIRE HAZARD :** Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.

Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.

**EXTINGUISHING MEDIA :** Dry chemical or foam preferred. Water fog may be used on flat surfaces such as roads.

**ADDITIONAL ADVICE :** Material will not burn unless preheated. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

**5.HEALTH HAZARD DATA**

**INHALATION :** Inhalation of vapors may cause irritation of the mucous membrane of the upper respiratory tract. High vapor concentrations may result in central nervous system depression.

**SKIN CONTACT :** May cause irritation. Contact with product at elevated temperatures can result in thermal burns.

**EYE CONTACT :** May cause irritation

**INGESTION :** May cause irritation

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**6. FIRST AID MEASURES**

- INHALATION** : In case of problems due to excess fumes exposure, move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing and transport to the nearest medical facility.
- SKIN CONTACT** : Burns from hot bitumen: remove heat by immediately treating/plunging the affected part with cold running water for 10 minutes. After cooling, NO attempt should be made to remove the bitumen adhering to the skin since the cold bitumen forms a sterile protective layer on the burnt area. If for any reason the bitumen must be removed, this can be done using slightly warmed medicinal paraffin. Seek medical assistance or hospitalization in all cases of serious burns
- EYE CONTACT** : Flood eyes with plenty of water for at least 15 minutes, blinking as often as possible. Remove deposits around the eye, eyelashes and eyebrows by wiping carefully with a soft cloth soaked with medicinal paraffin oil. Do not force eyelids open. If irritation persists, obtain medical attention
- INGESTION** : DO NOT induce vomiting, get medical advice. Give milk or water to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not give anything by mouth to an unconscious person.
- ADVICE TO DOCTOR** : When it is absolutely necessary to remove adhering bitumen from the skin, liberal amounts of warm medicinal paraffin can be used. If solvent treatment is required, washing with soap and water and then the application of a proprietary re-fattening or skin cleansing cream should follow.

**7. REACTIVITY DATA**

- STABILITY** : Chemically stable under normal conditions of use
- INCOMPATIBILITY** : Strong oxidizing agents. Avoid accidental contact of hot material with water as this can cause violent eruptions
- HARZADOUS COMBUSTION OR DECOMPOSITION PRODUCTS** : If product is over heated, decomposition products may be formed resulting into a fire or explosion hazard. H2S may be released if the product is heated, particularly in the presence of water.
- CONDITIONS TO AVOID** : Heat, formation of vapors and naked flames

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**8.SPILL OR LEAK PROCEDURES**

**ACTIONS TO TAKE FOR LEAKS & SPILLS** : If spillages or leaks occur, remove all heat and ignition sources. Provide maximum ventilation. Cleanup personnel should wear protective clothing as appropriate and described above.

**WASTE DISPOSAL METHOD** : Small spills may be mopped up with sand or some other non-combustible, inert material and placed in containers appropriate for disposal compliant with the relevant law.

**9.SPECIAL PROTECTION PROCEDURES**

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

**EYE PROTECTION** : Safety glasses with side shields or chemical splash goggles and/or full face shield to protect eyes and face if contact is likely. Provide an eye station in the area

**SKIN PROTECTION** : Chemically resistant impervious gloves, boots, suits and other items should preferably be PVC, Neoprene or Nitrile Rubber to be used. Safety showers should be available for use

**10.HANDLING AND STORING**

**SPECIAL PRECAUTIONS** : Avoid contact with eyes, skin, clothing and foodstuffs. Wash thoroughly after handling. Launder contaminated clothing prior to use; use good personal hygiene Keep product away from ignition sources such as heat, sparks and flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors has dissipated. Store in a cool, dry and well-ventilated area. Keep containers closed at all time.

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**11.TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY AND MUTAGENICITY** : According to the International Agency for Research and Cancer (IARC), this product is not classifiable as a human carcinogen. It may contain a variety of Polycyclic Aromatic Hydrocarbons (PAH), some of which are associated with the potential of inducing skin cancer. Increasing amounts of PAH may be released if this product is heated above 200°C.

**CHRONIC EFFECTS** : Prolonged or repeated contact with Polycyclic Aromatic Hydrocarbons (PAH) may cause skin cancer where there is poor personal hygiene.

**12.ECOLOGICAL INFORMATION**

**BIODEGRADABILITY** No Data available for all ingredients

**13.DISPOSAL CONDITIONS**

**PROCEDURES** : Dispose of used absorbent in an approved landfill or municipal tip in accordance with local regulations. Cold material is biologically inert. Do not contaminate rivers, streams, or watercourses.

**14.TRANSPORTATION INFORMATIONS**

**PROPER SHIPPING NAME** : Modified Bitumen

**DG CLASS / DIVISION** : 9

**Land transport (ADG):** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**Air transport (ICAO-IATA / DGR):** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**Sea transport (IMDG-Code / GGVSee):** NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**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.

