



BITUMIX
(PRIVATE) LIMITED

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: Rainguard Sealant

MSDS NUMBER:903

MSDS DATE:20/11/2015

EMERGENCY PHONE NOS:0722240241

KEY NUMBER: 2000

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BITUMIX (PRIVATE) LIMITED

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HEALTH

0 Slightly

FIRE

1 Slightly

REACTIVITY

0 Stable

SPECIFIC

1. IDENTIFICATION

MATERIAL NAME : Rainguard Sealant

OTHER NAMES : Sealant

PRODUCT NAME : Rainguard Sealant

2. PHYSICAL DATA

APPEARANCE : Black viscous liquid at high temperatures, semi solid at ambient temperatures

FLASH POINT, CLEVELAND COC : 232 °C minimum

BOILING POINT : > 400 °C

WATER SOLUBILITY : Negligible

SPECIFIC GRAVITY @ 25°C : 1.00 – 1.05

3. INGREDIENTS

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

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Key number : 2000**4.FIRE AND EXPLOSION HAZARD DATA**

- FIRE HAZARD :** CAUTION! Product is Combustible. It will not burn unless preheated. Isolate from sources of heat, naked flames and sparks. The vapor pressure of this product is expected to be too low at ambient temperatures and pressures for the lower explosion limit to be reached. This product is a hazardous substance when heated beyond 100 oC . Petroleum products are flammable (explosive) in proportions between approximately 1% and 10% of vapor in air by volume at ambient temperatures and pressures. Earth and bond all process equipment including tanks and drums. Boil over of tanks may occur due to presence of water.
- EXTINGUISHING MEDIA :** Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use water except as a fog. Do not use a direct stream of water
- ADDITIONAL ADVICE :** Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, Self-contained breathing apparatus. Cool surrounding equipment, fireexposedcontainers, pipelines and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water to prevent weakening of container structure. Do not apply water directly

5.HEALTH HAZARD DATA

- INHALATION :** Inhalation of vapors (generated at elevated temperatures) or oil mists can cause irritation to the nose and the throat as well as nausea. It is possible for hydrogen Sulphide to accumulate to lethal concentrations above hot bitumen in the vapor space of bulk storage tanks.
- SKIN CONTACT :** Severe thermal burns (up to third degree). Shock. Other than heat burns, the hazards associated with skin contact are negligible. Where long and physical contact with bitumen occurs, expert medical advice should be sought to the need of periodic skin examination and in case of any skin abnormality.
- EYE CONTACT :** May cause irritation
- INGESTION :** May cause irritation

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6.FIIRST 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 bitumen 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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- 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
- ENGINEERING CONTROLS** : Bulk storage tank ventilation is required due to the accumulation of fumes at operating conditions. Tanks, equipment and pipelines containing hot bitumen or heating medium, such as hot oil, should be adequately insulated to prevent accidental contact by personnel. Any surface that will reach a temperature of 70 oC must be insulated for personal protection. For personnel into confined spaces (e.g. bulk storage tanks), a proper confined space entry procedure must be followed, including ventilation and testing of tank atmosphere. Install eye washes and showers for emergency use. Water should not be allowed into contact with hot bitumen

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 200oC.
- 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 Not readily biodegradable. Potential for bio accumulation.

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

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.