



MATERIALS SAFETY DATA SHEET

SECTION 1 - PRODUCT INFORMATION

Product Identifier: **Florastic Mastic Asphalt**

Product Identification Number (PIN):

Product Use: Traffic Wearing Surface, Chemical & Acid Resistant
Heavy Duty Industrial Floors

WHMIS Classification Manufactured article:

Vulcan Asphalt & Supply (1995) Ltd.
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SECTION 2 - INGREDIENTS

Mastic asphalt is a type of material, composed of suitably graded mineral matter and asphaltic cement, blended together in such proportions as to form a cohesive, voidless impermeable mass, solid or semi-solid under normal temperature conditions, but sufficiently fluid when brought to a suitable temperature to be spread by means of a hand float, without compaction

Materials: 1. Asphaltic cement, which consists of bitumen, lake asphalt, asphaltic or blends of these with one another. 2. Fine aggregate: this will be either natural rock asphalt, which is limestone naturally impregnated with bitumen and mined or quarried in that form, or limestone, which is crushed to a fine powder. 3. Coarse aggregate: either crushed stone, eg: granite or limestone, or naturally occurring material, eg: grit.

Vapor resistivity: The vapor resistivity of mastic asphalt is very high and can be assumed to be not less than 100,000 MNs/(g.m.) Vapor diffusion resistance factor (u) is: the ratio of the vapor resistivity of the materials to that of still air. Mastic asphalt can be taken to have a factor of 20,000 for condensation control calculations. Mastic asphalt is impervious to water.

SECTION 3 - PHYSICAL DATA

Physical State: Solid/Semi Solid

Odour and Appearance: Black solid to semi-solid, Slight asphaltic/tar odor when semi-solid

Odour Threshold (ppm): 1

Percent Volatile by Volume (%): 0

Vapour Pressure (mm Hg): Not applicable

Vapour Density: Not applicable

Evaporation Rate: (BuAc = 1): Nil

Boiling Point (°C): Semi-solid + 215°C, Liquid at + 232°C

Freezing Point (°C): Minus 35-60°C

PH: Not applicable

Specific Gravity (Water = 1): 2.4kg/m³. Thick

Coef. Of Water/Oil Dist: Not applicable

SECTION 4 - FIRE AND EXPLOSION HAZARD

Flammability: Yes, if heated beyond 350°C

Flash Point (°C): 350°C

Upper Flammable Limit: n/a Lower Flammability Limit: n/a

Auto-Ignition temp (°C): n/a

Means of Extinction: Dry Chemical foam. Do not spray water directly on hot burning materials. Use water spray to cool equipment, exposed containers and cases

Hazardous Combustion Products: Carbon Monoxide, Toxic odor of sulphur

Explosion Data: Not sensitive to impact. Not sensitive to static electricity.

SECTION 5 - PREPERATION OF M.S.D.A

Prepared by: Vulcan Asphalt and Supply Limited

SECTION 6 - REACTIVITY DATA

Chemical Stability: Yes

Incompatibility with other substances - Yes, Upon cooling it is solid

Hazardous Decomposition Products: None

SECTION 7 - TOXICOLOGICAL PROPERTIES

Route of Entry: Skin Contact-yes; Skin absorption- no; Eye contact-yes; Inhalation-yes; Ingestion-no

Effects of acute exposure to product: Hot material can severely burn skin and eyes on contact. Acute exposure to hot material not expected to produce adverse effects.

Effects of cronic exposure to product: Fumes from hot material may cause nausea, headache, dizziness and Irritation eyes and upper respiratory tract.

Exposure Limits: TLV's Asphalt Fumes-5mg/m³ Hydrogen Sulf 14mg/m³

Sensitiation to product: Not available

Carcionogenicity: Not listed by IARC or ACGIH as carcinogen

Reproductive toxicity: Not available

Mutagenicity: Not available

Synergistic Products: Not available

SECTION 8 - FIRST AID MEASURES

Skin: For cold products, wash skin with soap and water. For hot product contact, quench burns with cold water and cover with sterile dressing. DO NOT TRY TO REMOVE PRODUCT. Move victim to HOSPITAL.

Eyes: Flush with running water for at least 15 minutes. Seek medical attention.

Inhalation: Move victim to fresh air. If irritation persists, administer oxygen and get medical attention.

Ingestion: Ingestion is unlikely bit if it happens do not induce vomiting and get medical attention.

SECTION 9 - PREVENTATIVE MEASURES

Personal Protective Equipment:

Gloves- Insulated oil-impervious loose gauntlet-type

Respirator- Air purifying respirator approved for dusts, mists and fumes

Eyes: Face shield or chemical safety goggle

Footwear - Approved Safety Shoes

Clothing - Long Sleeve Shirt, cufless pants or overalls

Engineering Controls: Provide sufficient ventilation to maintain airborne concentrations of asphalt and sulphide fumes below 5mg/m³ and 14mp/m³ respectively

Leak and Spill Procedure: Prevent from entering sewers or water courses. Allow to cool to solidity - break up and recover in drums

Waste Disposal: Dispose of to approved landfill site or to licenced reclaimer facility

Handling Procedure and Equipment: Emergency shower and eyewash fountains should be available within vicinity of any potential exposure to hot material

Storage Requirements: Do not store hot with strong oxidizers or light hydro-carbons in Immediate vicinity

Special Shipping Information: Transported either in solid form or in heated container transport machines.

