



MATERIAL SAFETY DATA SHEET

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BITUMIX
(PRIVATE) LIMITED

PRODUCT NAME: COLD MIX ASPHALT

MSDS NUMBER:1103

MSDS DATE:26/10/2015

KEY NUMBER: 1100

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HEALTH	1 Slight
FIRE	1 Slight
REACTIVITY	0 stable
SPECIFIC	

1. IDENTIFICATION

MATERIAL NAME : Cold Mix Asphalt
 PRODUCT FAMILY : Asphalt mixture
 CAS NUMBER : Mixture

2. PHYSICAL DATA

PHYSICAL STATE : Solid
 COLOR : Dark brown to black
 ODOR : Asphalt Bitumen
 SPECIFIC GRAVITY : 2.3 – 2.9
 FLASH POINT : > 230 °C
 BOILING POINT : > 370 °C
 SOLUBILITY (WATER) : Negligible
 VISCOSITY : N/A

3. INGREDIENTS

Material/Components	CAS#	CAS Name	Concentration %
Aggregate (crushed stone, sand, gravel)	Various	Mineral	> 90%
Petroleum asphalt/ Bitumen	8052-42-4	Asphalt	< 5%
Additives	Various	N/A	< 5%

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4. FIRE AND EXPLOSION HAZARD DATA

- FIRE HAZARD :** Can release vapors that form explosive mixtures at temperatures or above the flash point.
- EXTINGUISHING MEDIA :** Carbon dioxide, foam, or dry powder. Do not use water because of violent reaction with hot asphalt. Use water spray to cool fire exposed containers. Exercise care when using water as contact with hot asphalt products may produce steam and violent foaming.
- ADDITIONAL ADVICE :** As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Decomposition may produce fumes, smoke, oxides of sulfur, carbon and hydrocarbons, and possible small quantities of hydrogen sulfide. NIOSH approved positive-pressure breathing apparatus with full face mask and full protective equipment

5. HEALTH HAZARD DATA

- INHALATION :** Prolonged or excessive inhalation of fumes from hot material may cause respiratory tract irritation, dizziness, and nausea. Hydrogen sulfide can cause respiratory paralysis and death depending on the concentration and duration of exposure.
- SKIN CONTACT :** Contact with product at elevated temperatures can result in thermal burns. Frequent or prolonged contact with cool material may irritate the skin and cause a skin rash (dermatitis).
- EYE CONTACT :** Fumes may cause eye irritation. Contact with hot product may produce severe burns to eye.
- INGESTION :** Ingestion is not considered a potential route of exposure. Ingestion of large amounts of cold product may cause intestinal distress. Essentially non-toxic.

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6. FIRST 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, safely remove victim to fresh air and provide oxygen. Get immediate medical attention.
- SKIN CONTACT** : For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. For hot material exposure, **DO NOT** try to remove solidified material from the skin. **DO NOT** try to dissolve with solvents or thinners. Get medical attention immediately. For exposure to cold material, wash skin with soap and water. Wear protective gloves to minimize skin contamination.
- EYE CONTACT** : Burns due to contact with heated material require immediate medical attention. Hold eyelids apart and flush eyes with plenty of cold water for at least 15 minutes. Get medical attention if irritation develops or persists.
- INGESTION** : Ingestion is not considered a potential route of exposure. If vomiting should occur spontaneously, keep airway clear. Contact a physician.

7. REACTIVITY DATA

- STABILITY** : This compound is stable at ambient conditions.
- INCOMPATIBILITY** : Incompatible or can react with acids, bases, oxidizers. Incompatible with water when hot.
- HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS** : Decomposition will not occur if handled and stored properly. In the case of a fire, oxides of sulfur, carbon, hydrocarbons, fumes, and smoke may be produced.
- HAZARDOUS POLYMERIZATION** : Not expected to occur
- CONDITIONS TO AVOID** : Avoid extreme temperatures.

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8.SPILL OR LEAK PROCEDURES

ACTIONS TO TAKE FOR LEAKS & SPILLS : Allow material to solidify, and scrape up.

WASTE DISPOSAL METHOD : For small amounts dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result. Dispose of in accordance with relevant local legislation.

9.SPECIAL PROTECTION PROCEDURES

RESPIRATORY PROTECTION : Under normal use conditions, with adequate ventilation, no special handling equipment is required. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

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

SKIN PROTECTION : When handling hot material, use protective clothing impervious to this material. Selection of specific items such as gloves, boots, and apron or full-body suit will depend on operation

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

10.HANDLING AND STORING

SPECIAL PRECAUTIONS : When sampling containers use appropriate personal protective equipment. Do not enter storage area unless adequately ventilated. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing. Breathing hydrogen sulfide must be avoided.

Do not store at temperatures above 95°C. When asphaltic products are heated, they may give off small amounts of hydrogen sulfide which may accumulate in the head space of storage containers. Use adequate ventilation.

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11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY : IARC has determined that there is inadequate evidence that asphalts are carcinogenic to humans. While brief or intermittent skin contact with this product is not expected to cause harm, those workers who do not practice good personal hygiene and who are exposed repeatedly via skin contact may be at risk. Suspect cancer hazard (contains material which) may cause cancer: IARC has classified crystalline silica as a known human carcinogen. Procedures such as saw cutting or grinding which expose uncoated aggregate may produce significant exposure to crystalline silica.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE : None known.

13. DISPOSAL CONDITIONS

PROCEDURES : Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Unclean empty containers should be disposed of in the same manner as the contents

14. TRANSPORTATION INFORMATIONS

GROUND OR WATER DOMESTIC VOYAGE (DOT) : Not classified as dangerous for transport.

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.