

## MATERIAL SAFETY DATA SHEET

according to regulation CE 453/2010

**BITUMIX** rev. 03/2014

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product trade name**

**Product identification** Bitumix  
**Synonyms** Natural Asphalt, Asphalt Rock  
**Chemical Family** Asphalt  
**Application** Additive in bituminous compounds

**Manufacturer/Supplier**

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Natural asphalt	12002-43-6	100%	Not applicable	Not applicable

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation.

### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.  
**Skin** Wash with soap and water. Get medical attention if irritation persists.  
**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.  
**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.  
**Notes to Physician** Not Applicable

### 5. FIRE FIGHTING MEASURES

**Flash Point/Range (F)** 599  
**Flash Point/Range (C)** 315  
**Flash Point Method** Not Determined  
**Autoignition Temperature (F)** Not Determined  
**Autoignition Temperature (C)** Not Determined  
**Flammability Limits in Air - Lower (%)** Not Determined  
**Flammability Limits in Air - Lower (oz./ft3)** 0.02  
**Flammability Limits in Air - Upper (%)** Not Determined

**Fire Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

**Special Exposure Hazards**

Decomposition in fire may produce toxic gases. Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential.

**Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**NFPA Ratings**

Health 1, Flammability 1, Reactivity 0

**HMIS Ratings**

Health 0, Flammability 1, Reactivity 1

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautionary Measures**

Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary Measures**

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning/Absorption**

Scoop up and remove.

**7. HANDLING AND STORAGE**

**Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

**Storage Information**

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 24 months.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering Controls</b>	Use in a well ventilated area.
<b>Respiratory Protection</b>	Not normally needed. But if significant exposures are possible then the following respirator is recommended: Dust/mist respirator. (N95, P2/P3)
<b>Hand Protection</b>	Normal work gloves.
<b>Skin Protection</b>	Normal work coveralls.
<b>Eye Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>Other Precautions</b>	None known.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid
<b>Color</b>	Black/Dark brown
<b>Odor</b>	Asphalt
<b>pH</b>	5-7
<b>Specific Gravity @ 20 C (Water=1)</b>	1.05
<b>Density @ 20 C (lbs./gallon)</b>	Not Determined
<b>Bulk Density @ 20 C (lbs/ft3)</b>	65.55
<b>Boiling Point/Range (F)</b>	Not Determined
<b>Boiling Point/Range (C)</b>	Not Determined
<b>Freezing Point/Range (F)</b>	Not Determined
<b>Freezing Point/Range (C)</b>	Not Determined
<b>Vapor Pressure @ 20 C (mmHg)</b>	Not Determined
<b>Vapor Density (Air=1)</b>	Not Determined
<b>Percent Volatiles</b>	2
<b>Evaporation Rate (Butyl Acetate=1)</b>	Not Determined
<b>Solubility in Water (g/100ml)</b>	Insoluble
<b>Solubility in Solvents (g/100ml)</b>	Not Determined
<b>VOCs (lbs./gallon)</b>	Not Determined

Viscosity, Dynamic @ 20 C (centipoise)	Not Determined
Viscosity, Kinematic @ 20 C (centistokes)	Not Determined
Partition Coefficient/n-Octanol/Water	Not Determined
Molecular Weight (g/mole)	Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data	Stable
Hazardous Polymerization	Will Not Occur
Conditions to Avoid	None anticipated
Incompatibility (Materials to Avoid)	Strong oxidizers.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide. Toxic fumes.
Additional Guidelines	Not Applicable

## 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure	Eye or skin contact, inhalation.
Inhalation	May cause respiratory irritation.
Skin Contact	May cause mild skin irritation.
Eye Contact	May cause mechanical irritation to eye.
Ingestion	None known
Aggravated Medical Conditions	None known.
Chronic Effects/Carcinogenicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Other Information	None known.

### Toxicity Tests

Oral Toxicity	Not determined
Dermal Toxicity	Not determined
Inhalation Toxicity	Not determined
Primary Irritation Effect	Not determined
Carcinogenicity	Not determined
Genotoxicity	Not determined
Reproductive/Developmental Toxicity	Not determined

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)	Not determined
Persistence/Degradability	Slowly biodegradable
Bio-accumulation	Not determined

### Ecotoxicological Information

Acute Fish Toxicity	Not determined
Acute Crustaceans Toxicity	TLM96: > 10000 mg/l (Crangon crangon)
Acute Algae Toxicity	Not determined

### Chemical Fate Information

Not determined

### Other Information

Not applicable

## 13. DISPOSAL CONSIDERATIONS

### Disposal Method

Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging**

Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION**

**Land Transportation**

DOT	Not restricted
Canadian TDG	Not restricted
ADR	Not restricted

**Air Transportation**

ICAO/IATA	Not restricted
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**Sea Transportation**

IMDG	Not restricted
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**Other Transportation Information**

Labels	None
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**15. REGULATORY INFORMATION**

**US Regulations**

US TSCA Inventory	All components listed on inventory or are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable
EPA SARA (311,312) HazardClass	Acute Health Hazard
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable.
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.
California Proposition 65	All components listed do not apply to the California Proposition 65 Regulation.
MA Right-to-Know Law	Does not apply.
NJ Right-to-Know Law	Does not apply.
PA Right-to-Know Law	Does not apply.

**Canadian Regulations**

Canadian DSL Inventory	All components listed on inventory or are exempt.
WHMIS Hazard Class	D2B Toxic Materials

**16. OTHER INFORMATION**

**The following sections have been revised since the last issue of this MSDS**

Not applicable

**Additional Information**

For additional information on the use of this product, contact your local distributor or the Manufacturer.

**Disclaimer Statement**

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