



# PT. PUTINDO BINTECH

Makaliwe Office Park, Jl. Dr. Makaliwe Raya No. 16 A-B, Grogol - Jakarta Barat 11450  
Telp. 021- 56959150 / 56959151 - Fax. 021 - 56944589 / 56959199, Email. info@bai.co.id - www.bai.co.id

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Product Name	Buton Rock Asphalt
Product use	Road Pavement Additive
Manufacturer	PT Putindo Bintech
	Jl DR Makaliwe Raya no 16B
	Jakarta 11510
	Indonesia
	Phone: +62 21 5695 9151
	Emergency Phone: +62 21 5695 9150

### 2. Hazards Identification

#### Potential short term health effects

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause irritation due the abrasive action of the dust.
Skin	This Substance is not expected to cause prolonged or significant skin irritation.
Inhalation	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Eyes. Skin. Lungs.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis. May cause delayed lung damage.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
OSHA Regulatory Status	A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER OSHA HAZARD COMMUNICATION STANDARTS ( 29.CFR 1910.1200 )
Potential environmental effects	Not available

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
hydrocarbon – black solid	12002-43-6	100



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## 4. First Aid Measures

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### First aid procedures

#### Eye contact First aid procedures Skin contact Inhalation

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists. Brush away excess of dry material. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

#### Ingestion

Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

#### General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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### Flammable properties

Not Flammable by WHMIS/OSHA criteria

### Extinguishing media

**Suitable extinguishing media** Dry Chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** Not Available

### Protection of firefighters

**Specific hazards arising from the chemical** Not Available

**Protective equipment for firefighters** Firefighter should wear full protective clothing including self contained breathing apparatus

### Hazardous combustion products

May include and are not limited to : oxides of carbon. Oxides of nitrogen.

### Explosion data

**Sensitivity to mechanical impact** Not Available

**Sensitivity to static discharge** Not Available

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## 6. Accidental Release Measures

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### Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### Methods for containment

Stop the flow of material, if this is without risk.

### Method for cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.



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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid breathing dust. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Based upon information review to date, this product fits the ACGIH definition for nuisance dust

### Ingredient(s)

Hydrocarbon – black solid

### Exposure Limits

#### ACGIH-TLV

TWA: 5 mg / m<sup>3</sup>

#### OSHA-PEL

TWA : 5 mg / m<sup>3</sup>

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses with side shields.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.



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## 9. Physical and Chemical Properties

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Appearance	Granules
Color	Black
Form	Solid
Odor	Odorless
Odor threshold	Not available
Physical state	Solid
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.635
Octanol/water coefficient	Not available
Solubility (H <sub>2</sub> O)	Insoluble
Percent volatile	Not available

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## 10. Stability and Reactivity

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Reactivity	None known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Avoid dust generation
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.



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## 11. Toxicological Information

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### Component analysis - LC50

<b>Ingredient(s)</b>	<b>LC50</b>
Hydrocarbon – black solid	Not available

### Component analysis - Oral LD50

<b>Ingredient(s)</b>	<b>LD50</b>
Coal, hydrocarbon – black solid	Not available

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Prolonged or repeated inhalation may cause lung damage.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.

**Sensitization** Non-hazardous by WHMIS/OSHA criteria.

**Chronic effects** Prolonged or repeated exposure may cause lung injury.

**Carcinogenicity** See below.

### ACGIH - Threshold Limit Values - Carcinogens

Hydrocarbon – black solid	8029-10-5 A4 -	Not Classifiable as a Human Carcinogen
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**Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.

**Reproductive effects** Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

**Name of Toxicologically Synergistic Products** Not available

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## 12. Ecological Information

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<b>Ecotoxicity</b>	Not available
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effect</b>	Not available

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	Review federal, state/provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available



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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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## 15.Regulation Information

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### Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### WHMIS status

Controlled

### WHMIS classification

Class D - Division 2B

### WHMIS labeling



### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200. hazardous No

Chemical

### US Federal Regulation

A HAZARD WARNING IS NOT REQUIRED FOR THIS PRODUCT UNDER OSHA HAZARD COMMUNICATION STANDARDS ( 29.CFR 1910.1200 )

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance**  
No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available



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## 16. Other Information

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### Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

### Issue date

15-Dec-2015

### Effective date

01-Jan -2016

### Expiry date

01-Dec-2018

### Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.