

1. Product and Company Identification		
<u>GROUP HEADOFFICE</u> Sripath Technologies®, LLC 115 Franklin Turnpike, #250, Mahwah, NJ 07430, USA Phone: (201) 721-7562		
<u>EUROPE OFFICE</u> Sripath Innovations Ltd. 21 Ledbury Place Croydon, CR0-1ET United Kingdom +44 20 8688-9645	<u>ASIA OFFICE</u> Bitpath Pvt. Ltd. D-411, Dheeraj Uphar, Film City Rd. Behind Dindoshi Bus Depot Malad (E), Mumbai 400-097, India +91 98211-33845	<u>AUSTRALIA OFFICE</u> Sripath Asia Pac Pty. Ltd. Auz Country Carriers Warehouse F3/155 Abbotts Road Dandenong South, VIC 3175 Australia +61 800-191-799
Chemwatch Emergency Response International <i>See Section 16 for Local Emergency Response Telephone Numbers</i>		
+1 855 237 5573		
Product Identifier:	ButaPhalt®	
Synonyms:	ButaPhalt® Solid; ButaPhalt® S50; ButaPhalt® S100	
Chemical Family:	Blend of Chemical Additives	
Recommended Use:	Asphalt or Bitumen Additive	
Restrictions on Use:	For use only in asphalt or bitumen binder or in asphalt paving mixtures	

2. Hazards Identification				
Classification of the Substance:				
Pictogram:		Signal Word: DANGER		
				
Hazard Statement(s):				
Hazard to Aquatic environment, short term		Acute 2		
Hazard to Aquatic environment, long term		Chronic 2		
Skin Irritation		3		
Eye Irritation/Damage		2B		
Specific Target Organ Toxicity, repeated exposure		1 Route – Oral, Organ – Kidney		
Specific Target Organ Toxicity, repeated exposure		1 Respiratory		
Precautionary Statement(s):				
H401		Toxic to Aquatic Life		
H411		Toxic to Aquatic Life with long term effects		
H316, H317		May cause skin irritation/reaction		
H320		Causes eye irritation		
H372		Causes damage to organs Route – Oral, Organ - Kidney		
H335		May cause respiratory irritation		
Hazards Not Otherwise Classified:				
EMERGENCY OVERVIEW:				
Potential Health Effects:				
Skin Contact:		May cause irritation		
Eye Contact:		Will cause cornea damage		
Inhalation:		May cause damage to organs with prolonged or repeated exposure		
Ingestion:		Unlikely, but if happens, possible short term bowel irritant		
HMIS Ratings (Scale of 1 to 4)		Health: 2	Fire: 2	Reactivity: 1
NFPA Ratings (Scale of 1 to 4)		Health: 2	Fire: 2	Reactivity: 1
				Special: N/A
				Other: N/A

3. Composition/Information on Ingredients			
Ingredient Name	CAS Number:	EC Number:	Weight %
Sulfur	7704-34-9	231-722-6	65 to 85 %
Oils	68956-68-3 64742-53-6	273-313-5 265-156-6	1 to 8%
Clays	1318-02-1	215-283-8	3 to 15 %
Hexamethylene tetra amine	100-97-0	202-905-8	1 to 10 %
2,2'-Dithiobisbenzothiazole	120-78-5	204-429-9	1 to 10 %

4. First Aid Measures	
Skin Contact:	Wash with soap and cold water. Get medical attention if irritation develops or persists.
Eye Contact:	Flush with copious amounts of water – do not rub against eyes. Get medical attention if irritation develops.
Inhalation:	Remove to fresh air. Clear nasal and bronchial tract and administer oxygen. Get medical attention if irritation develops or persists.
Ingestion:	Refer to physician immediately
Notes to Physician:	Treat symptomatically
Acute Symptoms / Effects	Product may irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.
Delayed Symptoms / Effects	No information on significant adverse effects
Indication of Immediate medical attention and special treatment	N/A

5. Fire Fighting Measures	
Flash Point: (COC)	N/A
Suitable Extinguishing Media:	Foam, Carbon Dioxide, Dry Chemical
Unsuitable Extinguishing Media:	Avoid use of water
Fire Fighting Instructions:	Remove bag from fire area if possible. Do not scatter spilled material with high-pressure water stream. Toxic fumes may develop. Wear self-contained breathing apparatus for firefighting, if necessary.
Specific Hazards:	
Fire and Explosion Hazard:	Presents no particular fire or explosion hazard. In powder form, if any ultrafine particles are suspended as dust in air, it may present a risk of explosion, the addition of binding agent makes this unlikely
Products of Combustion:	Thermal decomposition may produce: carbon dioxide, sulfur dioxide, carbon monoxide, water vapor.

6. Accidental Release Measures	
Emergency Procedures: Personal Evacuation and Safety:	Evacuate all persons away from incident and allow only rescue persons with full respiratory gear (oxygen masks) into location if needed. Avoid breathing dust. Avoid dust formation. Take precautionary measures against static discharges.
Environmental Precautions: Containment of Spill:	Prevent discharge of large quantities to drain or water courses.
Clean-up and Disposal:	Scoop spillage into suitable containers and send to approved waste disposal site.
Personal Protective Equipment (PPE):	
Eyes:	Goggles with side shields

SAFETY DATA SHEET

ButaPhalt® Solid

Hands and Feet:	Hands – PVC Gloves. Feet – Covered with socks and shoes
Body:	Full-body cover overalls plus PVC apron.
Respiratory:	Dust Mask

7. Handling and Storage

Safe Handling:	Use PVC Gloves, Dust Mask and Goggles at all times. Avoid breathing dust from this material.
Safe Storage:	Store under cover at ambient temperature.
Incompatibilities:	Water. Avoid direct sun light and rain.

8. Exposure Controls/Personal Protection

Exposure Parameters:	ACGIH 10 mg/m ³ (total dust), 3 mg/m ³ (respirable) OSHA PEL 15 mg/m ³ (total dust), 5 mg/m ³ (respirable)
Engineering Controls:	Use in well ventilated area with good air flow/extraction.
Protection Measures:	Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. Physical and Chemical Properties

Appearance Description:	Solid Yellow Powder
Odor:	Characteristic
Odor Threshold:	Not known
Initial Boiling Point and Boiling Range:	N/A
Softening/Melting Point:	N/A
Specific Gravity (H ₂ O=1):	1.8-1.9
pH:	N/A
Evaporation Rate:	Not known
Water Solubility:	Negligible
Vapor Density (air = 1)	Not known
Vapor Pressure:	Not known
Relative Density:	Not known
Solubility:	Not known
Partition Coefficient:	Not known
Freezing Point:	N/A
Flash Point:	N/A
Lower/upper Flame Limits:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not known
Viscosity:	N/A

10. Stability and Reactivity

Chemical Stability:	Stable at recommended usage and storage conditions
Reactivity:	Keep away from strong oxidizing and reducing agents
Incompatible Materials:	Amines, Bases, Copper, keep away from strong oxidizing agents and acids.
Conditions to avoid:	Direct sunlight and rain
Hazardous decomposition:	Carbon Monoxide, Sulfur dioxide, Carbon Dioxide, Nitrogen Oxide

11. Toxicological Information

Material	CAS	ORAL LD ₅₀	Dermal LD ₅₀
Sulfur	7704-34-9	5000 mg/kg	

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Hexamethylenetetraamine	100-97-0	20000 mg/kg	2000 mg/kg
2,2'-Dithiobisbenzothiazole	120-78-5	5000 mg/kg	

12. Ecological Information

Not determined. Prevent entrance of spills into any aquatic system.

Ecotoxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

13. Disposal Information

Dispose of in compliance with local, state, federal and international regulations.

14. Department of Transportation (DOT) Transport Information

Shipping Name:	ButaPhalt®
UN Number:	Not Regulated
UN proper shipping name:	Not Regulated
Hazard Class or Division:	Not Regulated
Packing Group:	Not Regulated
Environmental hazard(s):	Not Regulated
Labeling Requirements:	Not Regulated
Packing Authorizations:	
Exceptions:	Not Regulated
Non-Bulk Packing:	Not Regulated
Bulk Packing:	Not Regulated
Quantity Limitations:	
Passenger Aircraft:	Not Regulated
Cargo Aircraft Only:	Not Regulated
Vessel Stowage Requirements:	Not Regulated
Emergency Guide Number:	Not Regulated

15. Regulatory Information

OSHA Process Safety:	Not Regulated
SARA Title III:	Not Regulated
TSCA Status:	Not Regulated
CERCLA:	Not Regulated
EINECS Status:	Not Regulated
California Proposition 65:	Not Regulated
WHMIS Classification	Not Regulated

16: Other Information

Chemwatch Emergency Response International

+1 855 237 5573

Chemwatch Local Emergency Telephone Numbers:

Argentina: +54 11 6842 1116

Australia: +61 2 9186 1132

Austria: +43 800 281336

Belgium: +32 2 700 63 06

Brazil: +55 21 2018 1004

Bulgaria: +359 2 906 6310

Canada: +1 867 6702867

Chile: +56 42 2457 999

China: +86 769 8886 4656

Columbia: +57 6015143104

Denmark: +45 78 76 84 61

Estonia: +372 8840469

Finland: +358 75 3252482	France: +33 4 26 69 99 66	Germany: +49 32 211 121 704
Hungary: +36 1 779 9162	India: +91 800 0403 230	Ireland: +353 1 443 4289
Italy: +39 800 177 870	Japan: +81 50-3204-4966	Lithuania: +370 5 214 3027
Malaysia: +60 16 699 9010	Morocco: +1 424 364 1128	Netherlands: +31 70 262 0282
New Zealand: +64 800 700 112	Mexico: +52 55 4440c1956	Norway: +47 23 25 25 84
Poland: +48 22 208 6439	Portugal: +351 308 807 018	Russia: +7 499 505 15 59
Singapore: +65 3138 1227	Slovenia: +386 828 80514	South Africa: +27 21 813 6854
South Korea: +82 003084910204	Spain: +34 965 02 04 58	Sweden: +46 8 446 824 11
Switzerland: +41 44 551 4362	Taiwan: +886 2 2656 5404	Turkey: +90 800 621 2394
UK: +44 20 3901 3542	Uruguay: +598 000 413 598 5409	USA: +1 855 237 5573

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