

## Material Safety Data Sheet

### Identification of the substance/preparation and of the company/undertaking

<b>Trade Name</b>	<b>ShaliPitch (Coal Tar Pitch)</b>
<b>Intended Use</b>	Roofing Pitch Type I; Roofing Pitch Type III; Electrode Binder Pitch; Anode Binder Pitch; Cathode Binder Pitch
<b>Company Name</b>	<b>STP Limited</b> 43 Nehru Place 707 Chiranjiv Towers, New Delhi 110019, India Phone : +91 11 46561359 Fax : +91 11 46561358
<b>Emergency Information</b>	Phone : +91 81302 98888 Fax : +91 11 46561358

### [ 1 ] Composition / information on ingredients

Ingredient	CAS Number	Concentration (%)	Exposure Limits	
			OSHA PEL	ACGIH TLV
Coal Tar Pitch	65996-93-4	100%	0.2 mg/m <sup>3</sup> as 8-hr TWA (for coal tar pitch volatiles)	0.2 mg/m <sup>3</sup> as 8-hr TWA (for coal tar pitch volatiles)

### [2] Hazards Identification

<b>Emergency Overview:</b> A black solid with little to no odour. Has an aromatic, tarry odour at elevated temperatures. Carcinogen. Toxic. Irritant. Sensitizer (skin).	
<b>Signs and Symptoms of Potential Overexposure:</b>	inhalation exposures over long periods of time may lead to respiratory distress syndrome and talc pneumoconiosis. Direct eye contact with enamel vapour, dust may cause inflammation, discomfort, conjunctivitis, and possible abrasion of the cornea
<b>Primary Route(s) of Entry</b>	Skin contact, skin absorption, eye contact, inhalation, ingestion
<b>Medical Conditions Aggravated by Exposure:</b>	Persons with pre-existing skin disorders or central nervous functional illness may be at increased risk from overexposure. Exposure to vapours may aggravate pre-existing lung conditions. This is not likely to be a problem when appropriate procedures are used to minimize exposure.

### [3] First-aid Measures

<b>Inhalation</b>	Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. GET MEDICAL ATTENTION.
<b>Ingestion</b>	If conscious, induce vomiting to prevent further absorption. Give Oxygen if respiration is shallow. GET MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person.
<b>Eye Contact</b>	Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. GET MEDICAL ATTENTION.
<b>Skin Contact</b>	For contact with solid pitch, remove contaminated clothing and wash exposed area with waterless hand cleaner, soap and water. Do not use solvent on skin.
<b>Note to Physician:</b>	No specific antidote known. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

### [4] Fire-fighting Measures

<b>Extinguishing Media</b>	Water fog, foam, carbon di-oxide, dry chemical, sand, Soap Stone Powder, steam. Water spray can control unconfined pitch fires, but may cause frothing or eruption in closed tanks.
<b>Special Fire Fighting procedures</b>	Firefighters should wear self-contained breathing apparatus and full protective equipment. Normal firefighting procedures may be used. Skin and eyes contact should be avoided.
<b>Unusual Fire &amp; Explosion Hazards</b>	Liquid pitch at elevated temperatures will sustain combustion, and may generate vapours that may ignite in the presence of air and a source of ignition. Closed containers may explode when exposed to extreme heat. Solid enamel dust is sensitive to static discharge.

### [5] Accidental Release Measures / Spills and Leaks

<b>Steps to be taken in case material is released or spilled</b>	If solid pitch is spilled, shovel the spilled material into disposal containers. If liquid pitch is spilled, contain the material using inert solids (i.e. sand, earth, etc.) and allow the material to solidify and cool. Cooled material may then be shoveled into disposal bag.
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<b>Evacuation Procedure:</b>	Isolate the hazard and deny entry to unnecessary and unprotected personnel.
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#### [6] Handling & Storage

<b>Precautions for safe handling</b>	Closed system handling of liquid pitch may create excessive vapour concentrations in confined spaces. Follow appropriate confined space entry procedures when entering any confined space that has been in liquid enamel service.
<b>Other precautions</b>	Isolated storage is preferable. Maintain dry, ventilated conditions for storage. Containers should be periodically inspected

#### [7] Exposure Controls / Personal Protection

<b>Respiratory Protection (Type)</b>	When handling liquid pitch, wear appropriate thermal protection equipment as needed. Use of chemical goggles or face shields is highly recommended when handling molten material.
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#### [8] Ventilation

<b>Local Exhaust</b>	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.
<b>Protective Gloves</b>	Wear impervious gloves (i.e. latex rubber), boots, work uniform
<b>Eye Protection</b>	Safety glasses or chemical goggles

#### [9] Physical & Chemical Properties

<b>Molecular Formula:</b>	A complex hydrocarbon mixture which includes Poly Aromatic Hydrocarbons (PAHs)
<b>Appearance, State &amp; Odour (ambient temp.)</b>	Black solid with little to no odour; has an aromatic, tarry odour at elevated temperatures
<b>Vapour Pressure</b>	< 1 mm Hg @ 20°C
<b>Vapour Density (air=1):</b>	> 1
<b>Boiling Point:</b>	Initial boiling point > 250°C

<b>Freezing Point:</b>	Not applicable
<b>Melting Point</b>	See 'Softening Point'
<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity:</b>	1.25 to 1.35
<b>Softening Point:</b>	50 to 140°C
<b>VOC Content:</b>	Approx. 0.33% (EPA Method 24)
<b>Bulk Density:</b>	10 lb/gal.

#### [10] Stability & Reactivity

<b>Chemical Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Avoid static discharge and generation of dust. Contact with water can cause frothing or eruption of closed tanks.
<b>Incompatibilities:</b>	Strong oxidizers
<b>Hazardous Decomposition Products:</b>	None known
<b>Hazardous Polymerisation:</b>	Will not take place

#### [11] Toxicological Information

<b>Acute Oral LD50:</b>	6200 mg/kg for coal tar	<b>Species:</b>	Rat
<b>Acute Dermal LD50:</b>	Not available.	<b>Species:</b>	Not available
<b>Acute Inhalation LC50:</b>	TCLo=17 mg/m <sup>3</sup> for talc.	<b>Duration</b> :	6 hrs./26 days.
<b>Skin/Eye Irritation:</b>	Mild skin/eye irritant		
<b>Target Organs:</b>	Skin, possibly lungs, bladder, kidney and CNS		

<b>Carcinogenicity:</b>	Coal tar pitch volatiles, shoots, tars and oils are listed as a carcinogenic. Prolonged or repeated contact may lead to dermatitis
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#### [12] Ecological Information

<b>Ecotoxicity:</b>	No data is available.
<b>Environmental Fate:</b>	No data is available.

#### [13] Disposal Consideration

Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable regulations. Note that disposal regulations may also apply to empty containers and related equipments.

**[14] Transport Information**

<b>DOT / IATA/ IMDG Proper Shipping Name:</b>	When shipped as a solid and pkg<RQ: ShaliPitch/Coal Tar Pitch, Non Hazardous
<b>Emergency Guidebook:</b>	Refer TREM Cards for this product.
<b>Emergency Guidebook Numbers:</b>	<b>NAERG:</b> 171, 128 for elevated temperature shipments.

**[15] Regulatory Information (Risk & Safety Phrases)**

<b>OSHA Hazards:</b>	Carcinogen. Toxic. Irritant. Sensitiser (skin)		
<b>SARA 313:</b>	<b>CAS Number</b>	<b>Chemical Name</b>	<b>% by weight</b>
	85-01-8	Phenanthrene	3.0
	Mixtures	Polycyclic Aromatic Compounds	2.5
<b>Other Regulatory Listings:</b>	Very toxic material. Irritant. Sensitiser.		
<b>Special Shipping Information:</b>	Product Packed in Solid, : Chemicals, (Coal Tar Pitch): Non hazardous. OSHA Hazards: Carcinogen, Toxic, Irritant, Sensitizer (skin).		

**[16] Other Health & Safety Information**

<b>Precautionary Statement:</b>	Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data as a supplement to other information gathered by and make independent judgments of suitability of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Sources used from UK and USA manufacturers.
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