



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

IDENTITY : SILK – EMULSION  
MATERIAL : WATER BASED COATING FORMULATION

Code	None
Date Of Issue	08/01/2012
FORMULA : Not Applicable	<u>Chemical Name Or Synonyms</u> : AQUEOUS EMULSION BASED COATING

**MANUFACTURER'S NAME : BERGER PAINTS INDIA LIMITED**

**ADDRESS (NUMBER, STREET, CITY, STATE, PIN) :**

<b>FACTORY :</b> 14 & 15 SWARNAMOYEE ROAD P.O. BOTANIC GARDEN, Howrah – 711103	<b>TELEPHONE No :</b>  + 91-33-2668-4706 - 09
<b>H.O. :</b> BERGER HOUSE 129 PARK STREET Kolkata – 700 017	<b>TELEPHONE No :</b>  + 91-33-2229-9724 – 29
<b>PREPARED ON</b>	<b>08/01/2012</b>



## 2. COMPOSITIONAL INFORMATION :

	CAS REG. NO.	APPROX. WT. %	TWA/TLV	
			OSHA	ACGHI
Polymer	Not applicable	50 Max.	Not known	Not known
Titanium Dioxide (TD)	13463-67-7	40 Max.	5	NE mg/m <sup>3</sup>
Inorganic Filler (IF)	Mixture	50 Max.	15	10 mg/m <sup>3</sup>
Ethylene Glycol (EG)	107-21-1	15 Max.	Not known	10 mg/m <sup>3</sup>
Texanol Ester Alcohol	25265-77-4	10 Max.	Not established	Not established
Preservatives	330-54-1 10605-21-7 26530-20-1	5 Max.	LD 50 (Oral)	4000 mg/Kg. (Approx.)
Organic Filler mixture	Not applicable	10 max	Not known	Not known

## 3. HAZARD INFORMATION

### EFFECT OF OVER EXPOSURE

- Inhalation : Vapor or mist can irritate the nose, throat and lungs and cause headache & nausea.
- Skin Contact : Irritating to skin upon repeated or prolonged contact.
- Eye Contact : Moderately irritating to eyes.



#### 4. **FIRST-AID MEASURES**

- Inhalation : Move subject to fresh air.
- Eye & Skin Contact : Flush eyes with a large amount of water for at least 15 minutes. See a physician, if irritation persists. Wash affected skin areas with soap and water.
- Ingestion : If swallowed, dilute by giving two glasses of water or drink. See a physician. Never give anything by mouth to an unconscious person.

#### 5. **FIRE HAZARD INFORMATION**

- Flash Point : Non-combustible
- Auto Ignition Point : Not applicable
- Lower Explosion Limit (%) : Not applicable.
- Upper Explosion Limit(%) : Not applicable
- Unusual Fire & Explosion Hazards : Material can splatter above 212°F. Polymer film can burn.

#### 6. **ACCIDENTAL RELEASE MEASURE**

- **Steps to be taken in case material is released or spilled**

Keep spectators away. Floor may be slippery, use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning run-offs out of municipal sewers and open bodies of water.

5.0. PHYSICAL PROPERTY / CHEMICAL PROPERTY INFORMATION.



## 7. **STORAGE AND HANDLING INFORMATION**

- Storage Temperature : Max. 60°C/140°F  
Min. 10°C/34°F
- Precautionary Labeling : Keep from freezing — product may coagulate.

## 8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Ventilation Type : Mechanical, local exhaust ventilation at point of contaminated release.
- Respiratory Protection : Wear suitable respirator where exposure limits are exceeded.
- Protective Gloves : Thin rubber gloves
- Eye Protection : Chemical Splash goggles.

## 9. **PHYSICAL PROPERTY / CHEMICAL PROPERTY INFORMATION**

- Appearance : White viscous liquid
- Odour : Mild odour
- pH : 8.5 – 9.0
- Viscosity : Variable
- Melting or Freezing Point : Variable
- Boiling Point : Variable
- Vapour Pressure (mm HG) : Greater than 17 @ 60°F
- Vapour Density (Air – 1) : Greater than 1
- Solubility in Water : Diluteable
- %Volatile (by Wt.) : 60 Max.
- Specific Gravity (Water – 1) : Greater than 1
- Evaporation Rate : Greater than 1  
(Butyl Acetate = 1)



## 10. STABILITY AND REACTIVITY

Stability	:	Stable
Conditions to Avoid	:	Temperature above 150°C
Hazardous Decomposition Products	:	Not applicable
Hazardous Polymerization	:	May occur
Incompatibility (Materials to avoid)	:	Not applicable

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are :

**Ingestion** : no adverse effects expected, however, large amounts may cause nausea and vomiting

**Eye contact**: may be eye irritant

**Skin contact** : may cause skin irritation

**Inhalation** : where this material is used in a poorly ventilated area, at elevated temperatures or in confined spaces, vapour may cause irritation to mucous membranes of respiratory tract, headache and nausea.

**Long term effects** : no information available

**Toxicological Data** : no LD50 data is available for this product

## 12. ECOLOGICAL INFORMATION

Ecotoxicity : avoid contaminating waterways

## 13. WASTE DISPOSAL METHOD

Incinerate the liquid and the contaminated diking material at permitted facility according to local, state and Federal regulations.



#### 14. TRANSPORT INFORMATION

##### **Road and Rail Transport**

Not classified as Dangerous Goods by the criteria of the Central Motor Vehicles Rules 1989 as amended thereafter for transport by Road and Rail : NON-DANGEROUS GOODS.

##### **Marine Transport**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

##### **Air Transport**

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

#### 15. REGULATORY INFORMATION

**Classification:** The product require a hazard-warning label.

EC supply labeling

S2 – keep out of the reach of the children

S26 – incase of contact with eyes , rinse immediately with plenty of water and seek medical advice

S46 – if swallowed, seek immediate medical advice.

**Poisons Schedule:** None allocated.

#### 16. OTHER INFORMATION

Titanium dioxide and inorganic filler when formulated, as above, do not pose dust hazards unless sanding or grinding of the dry coating takes place.

*The information contained in the Material Safety Data Sheet is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Recipients were advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances.*

