

**INDOFIL INDUSTRIES LIMITED**  
**KOLSHET, OFF SWAMI VIVEKANAND ROAD,**  
**AZAD NAGAR, SANDOZ BAUG P.O.,**  
**THANE – 400 607. MAHARASHTRA (INDIA)**  
**TEL. NO. : 00-91-22- 67999100**  
**FAX NO. : 00-91-22-2589 83 57 / 59**

**2-R&D-MSDS-FP-410****MATERIAL SAFETY DATA SHEET****SECTION 1. PRODUCT IDENTIFICATION**

<b>Chemical Name</b>	Aqueous Polymer Emulsion	<b>Company Identification</b> INDOFIL INDUSTRIES LIMITED KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22-67999100 FAX NO. : 00-91-22-2589 83 57 / 59
<b>Trade Name</b>	Polymer Emulsion (INDTRON AE)	
<b>IUPAC Name</b>	-----	
<b>Synonyms</b>	Aqueous polymer emulsion	<b>GROUP</b> : Acrylic polymer
<b>CAS Number</b>	-----	<b>Class</b> : Used as Adjuvant
<b>Formula</b>		

**SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS**

COMPONENT NAME	CAS REGISTRY NO	CONCENTRATION
Acrylic polymer	-----	37 TO 39%
Emulsifiers	-----	10 to 15%
Inert ingredients	-----	Q.S.

**SECTION 3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW : NA

Physical state : Liquid

Colour : Milky white

**INGESTION** : May irritate the gastrointestinal tract.**INHALATION** : May cause irritation of nose and throat .**EYE CONTACT**: May be moderately irritating.**SKIN CONTACT** : May be moderately irritating.**DELAYED EFFECTS** : No delayed effects known.**IMMEDIATE HEALTH EFFECTS**

<b>Eye contact</b>	Possible eye irritation
<b>Skin contact</b>	Direct, prolonged or repeated contact with the skin may cause irritation .
<b>Ingestion</b>	Irritation of gastrointestinal tract
<b>Inhalation</b>	Mild irritation of nose and throat .

**DELAYED OR OTHER HEALTH EFFECTS**

Target organs	No delayed effects known		
An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)			
OSHA Health Hazard Classification		OSHA Physical Hazard Classification	
Toxic <input type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input type="checkbox"/>	Oxidizer <input type="checkbox"/>
Irritant <input type="checkbox"/>	Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>	
Corrosive <input type="checkbox"/>	Carcinogenic <input type="checkbox"/>	Explosive <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>
		Pyrophoric <input type="checkbox"/>	unstable <input type="checkbox"/>
		Organic peroxide <input type="checkbox"/>	water-reactive <input type="checkbox"/>

**SECTION 4 : FIRST AID MEASURES**

<b>Eye</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
<b>Skin</b>	In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
<b>Ingestion</b>	Immediately given 2 glasses of water if victim is conscious . Never give anything by mouth to an unconscious person. Get medical attention
<b>Inhalation</b>	Wearing proper respiratory protection before rescues. Immediately remove the affected victim from exposure to an area of fresh air. If not breathing give artificial respiration, if breathing is difficult, give oxygen .Get medical attention.
<b>Notes to physician</b>	Antidotes / dosages none known

**SECTION 5 : FIRE FIGHTING MEASURES**

<b>NFPA Flammability Classification</b>	-----
<b>NFPA RATINGS</b>	Health: 1      Flammability : 0      Reactivity: 0
<b>OSHA classification</b>	No data
<b>Flash point</b>	No data
<b>Flammability (Explosive limits)</b>	No data
<b>Auto ignition Temperature</b>	No data .
<b>Hazardous Combustion products</b>	No data .
<b>Extinguishing Media</b>	Water or use extinguishing media appropriate for surrounding fire
<b>Protection of Fire</b>	In the event of fire, wear full protective clothing and NIOSH-approved

<b>Fighters</b>	self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent material run-off. Decontaminate emergency personnel with soap and water before leaving the fire area. Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water
<b>Special Properties</b>	Product will not burn but may spatter if temperature exceeds boiling point. Polymer films are capable of burning giving off oxides of carbon and hydrogen cyanide
<b>SECTION 6 : ACCIDENTAL RELEASE MEASURES</b>	
<b>Steps to be taken in case Material is Released or Spilled.</b>	Keep unnecessary persons away. Absorb small spills on spill pillows or other suitable absorbing material (eg. Sand, soil or diatomaceous earth) and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal. Avoid contact of spilled materials and runoff with soil and surface waterways. Floors may be slippery, care should be exercised to avoid falls .

**SECTION 7 : HANDLING AND STORAGE**

<b>Handling &amp; Storage procedure</b>	<p><b>Handling precautions:</b> Do not get in eyes, on skin, or clothing. Avoid breathing vapors or spray mist. Clean applicator and measuring equipment before using with other products and dispose of wash water where it will not contaminate crops, grazing, river and dams. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash thoroughly after handling.</p> <p><b>Storage precautions:</b> Store in the original container and keep closed. Store in cool, dry and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep from freezing, product may coagulate. Storage temperature Max 60 degree and Min 5 degree.</p>
---	---

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering controls</b>	Ventilation equipment should be explosion-resistant if explosion concentrations of material are present.
<b>Personal Protective Equipment</b>	<p><b>Eye / Face Protection:</b> Splash goggles or face shield.</p> <p><b>Skin protection:</b> Rubber gloves should be worn. Wash thoroughly with soap and water after handling.</p> <p><b>Respiratory Protection:</b> Ensure good ventilation. For maximum protection, wear, full-face piece respirator, or full-face piece self-contained breathing apparatus.</p>

**Occupational exposure limits (exposure limit information)**

Component	Limit	TWA	STEL	Ceiling	Notation
No data	OSHA ACGIH	None	None	NA	NA

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid Emulsion	<b>Colour</b>	Milky white
<b>Odor</b>	Acrylic odour	<b>pH</b>	8.5 to 9.5
<b>Specific gravity</b>	1.0 to 1.2	<b>Solubility in water</b>	Soluble

<b>Vapor pressure</b>	No data	<b>Vapor density</b>	No data
<b>Viscosity</b>	No data	<b>Boiling point</b>	No data
<b>Melting / Freezing point</b>	Not applicable	<b>Evaporation rate</b>	No data

### SECTION 10: STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from heat, flame and other potential ignition sources.
<b>Material Incompatibility</b>	No data
<b>Hazardous Decomp. Products</b>	No data
<b>Hazardous Polymerization</b>	No data

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral toxicity	No data
Acute Dermal toxicity	No data
Acute Inhalation toxicity	No data
<p>Eye irritation: This material is irritating to the eyes</p> <p>Skin irritation: This material is irritating to the skin. A component of this product is a common emulsion polymer most familiar as the component of ordinary glue which exhibits the sticky characteristic. The emulsion polymer is not classified as a carcinogen by IARC, NTP or ACGIH. Any exposure to vinyl acetate monomer is expected to remain well below OSHA regulatory.</p>	

### SECTION 12: ECOLOGICAL INFORMATION

<b>Eco-toxicity</b>	For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Dispose of all excess treated seed-pieces and seed packaging by burial away from bodies of water.
<b>Environmental fate</b>	No data

### SECTION 13: DISPOSAL CONSIDERATIONS

<p>WASTE DISPOSAL PROCEDURES : Use material for its intended purpose or recycle if possible..</p> <p>Dispose of empty, used containers in approved incineration plant in approved land filling area or in a disposal pit away from desirable plants and their roots and water courses. On-site disposal of undiluted product is unacceptable. Coagulate the emulsion with ferric chloride or sulfate and then lime to a clear end point. Decant the liquid to sewer and landfill the coagulum. Incineration of the entire emulsion is possible but impractical because of high water content. Coagulum may be incinerated.</p> <p>Disposal should be in accordance with local state or national legislation. Remove to a safe location and bury on an authorized landfill site. Do not burn empty containers or Product.</p>	
--	--

### SECTION 14 : TRANSPORT INFORMATION

U.S DOT Hazard class ---- No data
-----------------------------------

<b>DOT Shipping Name</b>	DOT Technical Name : No data :
<b>DOT Hazard class</b>	No data
<b>DOT identification number</b>	No data
<b>DOT additional information</b>	No data

### SECTION 15: REGULATORY INFORMATION

<b>Work place classification</b>	
<b>SARA TITLE 3 : SECTION 311/312 Hazard Identification</b>	No data
<b>SARA TITLE 3 : SECTION 302/304 Emergency planning and notification</b>	No data
<b>SARA TITLE 3 : SECTION 313 Toxic chemical notification and Release reporting</b>	No data
<b>CERCLA ( 40 CFR 302.4)</b>	-----
<b>Waste classification</b>	No data
<b>Clean Air Act</b>	No data

### SECTION 16: OTHER INFORMATION

<b>NFPA RATINGS</b>	Health : 1	Flammability :--	Reactivity --
<b>HMIS RATINGS</b>	Health : --	Flammability --	Reactivity :--
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme		

### ABBREVIATIONS

STEL	Short term exposure limit
ACGIH	American conference of Government Industrial Hygienists
NIOSH	National institute of safety and health
SARA	Super fund Amendments and Reauthorization Act
TWA	Time weighted average
OSHA	Occupational safety and health
NFPA	National Fire protection agency
HMIS	Hazardous Materials information system
RCRA	Resource conservation Recovery act
TSCA	Toxic substance Control Act
WHMIS	Work place Hazardous Materials information system
IRAC	International Agency for Research on Cancer

### MANUFACTURE'S / SUPPLIER'S DATA

Name of Firm : INDOFIL INDUSTRIES LIMITED		
Mailing Address :	Kolshet, Off Swami Vivekanand Road, Azad nagar, Sandoz Baug P.O. Thane – 400 607.	Gat No. 194, Village – Gahunje, Tal. Maval, Dist. Pune.

Telephone 67999100	Telex		Telephone 020 767 5084	
Fax 2589 8357	Telegraphic Code		Fax 22767 5083	
Local Bodies Involved	Collector of Thane			

**DISCLAIMER**

The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties, of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is however ensured that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold as the case may be by us. Indofil Industries Limited makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

**06/07/06**