

REF.#MSDSV1.0.DT.22.04.2024

**1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:**

- **Trade Name:** **SHRASHITEX ETVS**
- **Application of the substance/preparation:** Binder/Printing Agent
- **Contact:** Technical Manager
- **Website :** [www.shrashi.com](http://www.shrashi.com)

**2- HAZARDS IDENTIFICATION:**

- **Hazard description:** Not applicable
- **Information concerning particular hazards for human and environment:**
  - ✓ **Inhalation** : May cause sensitization
  - ✓ **Skin contact** : Repeated skin contact may cause dryness or mild to moderate irritation.
  - ✓ **Eye contact** : Eye contact will cause irritation.
  - ✓ **Ingestion** : Harmful if swallowed.
- **Prevention:**  
It is recommended to wear safety glasses, protective gloves and to work with a good ventilation of area.

**GHS label elements:**

Signal word (GHS-US)- Warning

Hazard Statements- H-319

Precautionary Statements-P337+P313

Supplementary Precautionary Statements- P280, P264



**3- COMPOSITION/INFORMATION ON INGREDIENTS:**

<b>Chemical Characteristics</b>	:	Mixture
<b>Composition</b>	:	Acrylic Co-Polymer emulsion

**4- FIRST AID MEASURES:**

In accordance with good industrial practice, handle with care and avoid unnecessary Personal contact.

- **Inhalation** : Remove from exposure to fresh air immediately. If not breathing, give Artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- **Skin contact** : Remove contaminated clothing, wash with copious amounts of soap and water. Seek medical attention if any soreness arises.
- **Eye contact** : Flush eyes with copious amounts of water for at least 15 min. Obtain medical attention if any soreness arises.
- **Ingestion** : If swallowed wash out mouth with water provided person is conscious. Do not induce vomiting drink water and seek medical attention immediately.

**5- FIRE-FIGHTING MEASURES:**

- **General Information** : Use extinguishing measures appropriate to the source of fire
- **Suitable extinguishing media** : Water, foam, CO2, dry media
- **Non-suitable media** : N/A
- **Special exposure hazards** : N/A
- **Protection against fire and explosions:** Material can splatter above 100°C. Dried product can burn.

**6- ACCIDENTAL RELEASE MEASURES:**

- **Person-related safety precautions:**
  - ✓ Slippery floor by product spill.
  - ✓ Avoid contact with product.
  - ✓ Wear protective equipment: protective clothes, gloves, safety glasses (eyeshade) and respiratory protective device against the effects of fumes/dust in case of insufficient ventilation.
  - ✓ Keep unprotected persons away.
- **Measures for environmental protection:**
  - ✓ Keep away from ground water. The product must not get into water without pretreatment (biological sewage purification plant).
- **Measures for cleaning/collecting:**
  - ✓ Absorb with inert material.
  - ✓ Ensure adequate ventilation.
- **Additional information:**
  - ✓ See Section 7 for information on safe handling.
  - ✓ See Section 8 for information on personal protection equipment.
  - ✓ See Section 13 for disposal information.

**7- HANDLING AND STORAGE:**

- **Handling:**
  - ✓ Avoid contact with skin, eyes and clothes.
  - ✓ Do not breathe vapors/fumes during soldering.
  - ✓ See Section 8 for information on personal protection equipment.
  - ✓ In case of operations which generate dust or fume, either adequate ventilation must be provided, or the users must make use of approved respirators.
- **Storage:**
  - ✓ In original packaging at a room temperature. Keep packaging well closed.
  - ✓ Preservation: 6 months from the manufacturing date.

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

- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - ✓ Engineering control: Follow the usual good standards of occupational hygiene.
  - ✓ Provide eyewash & shower facilities near workplace
  - ✓ Keep away from foodstuffs, beverages and feed.
  - ✓ Do not inhale gases / fumes.
  - ✓ Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - ✓ Suitable fumes extraction system must be locally installed.
  - ✓ Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
  - ✓ Impermeable gloves of gum or PVC Protective gloves persistent to chemicals according to EN 374. The selection of suitable gloves does not depend only on the material but also on further characteristics particularly on the layer thickness. The penetration times must not fall below:
    - ❖ 480 min (Full contact), or 30 min (splash contact).
  - ✓ These minimum requirements have to be guaranteed by the manufacturer.
- **Eye protection:**
  - ✓ Safety Protecting glasses, maintain eye wash fountain and quick-drench facilities in work area
  - ✓ Eye-washing must be provided in the storage place and workplace.
- **Body protection:**
  - ✓ Protective work clothing is recommended.

**9- PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance</b>	Slightly bluish White
<b>Odour</b>	Product Specific
<b>Solid Content</b>	38±1%
<b>pH-value</b>	7.0-9.0
<b>Boiling temperature</b>	100°C (water)
<b>Flash point</b>	Not self-igniting
<b>Melting point</b>	NA
<b>Specific gravity</b>	1.05 g/cm <sup>3</sup>
<b>Solubility in water</b>	Dispersible
<b>Viscosity</b>	Max. 100-500 cps
<b>Ionic character</b>	Anionic

**10- STABILITY AND REACTIVITY:****Thermic decomposition / conditions to avoid:**

**Stability** : Product is stable at room temperature.

**Conditions to avoid** : No hazardous reaction when stored & handled according to instructions.

**Materials to avoid** : No hazardous reaction when stored & handled according to instructions.

**Hazardous Polymerization:** Will not undergo polymerization

**Thermal decomposition** : May yield acrylic monomer at exposure temp.

**Burning may produce (NOx) and (COx).**

- **Shelf-life:** 6 months from the manufacturing date
- **Hazardous reactions:**
  - ✓ None according to our knowledge.
- **Hazardous decomposition products:**
  - ✓ None according to our knowledge.

**11- TOXICOLOGICAL INFORMATION:**

LD 50(rat oral) : >2000mg/kg (**Category 5**) (LD 50 value starting dose using Reference chemicals regression equation.)

**Acute toxicity-Primary Irritant effect:**

Skin Contact : Prolonged skin and eye contact with the product should be avoided. There is no known risk if used properly.

Inhalation : No known harmful effect.

Eye Contact : Possibility of mechanical irritation.

Ingestion : LD50 Rat >2000mg/Kg (Oral)

Repeated-Dose toxicity : N/A

Mutagenicity : N/A

Carcinogenicity : N/A

Reproductive toxicity : N/A

**12- ECOLOGICAL INFORMATION:**

The product has not been tested. The statement has been derived from products of a similar structure and composition.

IC50 (72 h, Alga) : 1000 mg/l (**category 5**) (OECD 201 method)

Bio-Degradability : >70% (OECD test guideline 301 D)

Toxicity : Nontoxic

Heavy metal : The recipe does not contain heavy metals

**13- DISPOSAL CONSIDERATIONS:**

Product Advice : Dispose conforming to local waste disposal regulations/bye-laws  
Un-cleaned packaging advice : Completely discharge containers and may be recycled or reused.  
Observe local & European recycle regulations/ bye-laws.

**14- TRANSPORT INFORMATION:**

IMDG Code/Class : Non-hazardous  
Road / Rail transport : Non-hazardous  
Sea transport (IMDG) : Non-hazardous  
Air transport (IATA) : Non-hazardous

**15- REGULATORY INFORMATION:**

International Inventories  
European Union : All components of this product are in compliance with inventory or are exempt from listing.

Australia (AICS) : All components of this product are in compliance with inventory or are exempt from listing

Canda (DSL) : All components of this product are in compliance with inventory or are exempt from listing

China (IECSC) : All components of this product are in compliance with inventory or are exempt from listing.

Japan (ENCS) : All components of this product are in compliance with inventory or are exempt from listing.

United States (TSCA) : All components of this product are in compliance with inventory or are exempt from listing.

This classification is based on the current recommendations. It may deviate from a possible classification deriving solely from the data of toxicology and ecology sections.

**16- OTHER INFORMATION:**

This material safety data sheet is entirely written in accordance with regulations in force.

**Disclaimer:** The information contained in this safety data sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, the company has no liability for damages suffered by the purchaser or other persons in handling of these materials and it is the sole responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Technical Data Sheet.