

# Material Safety Data Sheet

## 1. MATERIAL & COMPANY IDENTIFICATION

**Product Name** : VertiGrip 1110  
**Manufacturer** : S3 Technologies Sdn Bhd  
**Address** : PT 5889, Jalan Changkat Larang, 31007 Batu Gajah, Perak  
**Contact** : Tel: 05-3651232 Fax: 05-3651233

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Styrene / Acrylic acid Co-polymer** : 20 – 40% by weight  
**CAS Reg. No.** : 25085-34-1  
**Water** : > 60% by weight  
**CAS Reg. No.** : 7732-18-5

## 3. HAZARDS IDENTIFICATION

- 3.1 Ingestion**  
May cause temporary irritation to the gastrointestinal tract.
- 3.2 Inhalation**  
May irritate nose, throat, and upper respiratory tract.
- 3.3 Eye Contact**  
May cause eye itching, redness and pain.
- 3.4 Skin Contact**  
May cause irritation

## 4. FIRST AID MEASURES

- 4.1 Ingestion**  
Never give anything by mouth to an unconscious or convulsing person. If ingested, rinse mouth with water and seek immediate medical assistance.
- 4.2 Inhalation**  
Move the victim to fresh air. If breathing is difficult, give oxygen; if victim is not breathing, give artificial breathing, and seek immediate medical assistance.
- 4.3 Eye Contact**  
Flush with plenty of water for 15 minutes and seek medical advice without delay.

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## 4. FIRST AID MEASURES (Continued)

### 4.4 Skin Contact

Remove contaminated shoes and clothing. Rinse affected area with large amounts of water followed by washing the area with soap and water. If irritation persists, seek medical assistance.

### 4.5 General

In all cases of doubt, or where symptoms persist, medical advice should be obtained.

## 5. FIRE-FIGHTING MEASURE

Specific Hazards : Non-Combustible material

Extinguishing Media : General extinguishing media such as water, spray carbon dioxide, chemical form type applied as appropriate for surrounding fire.

Flammability Limits : Not Applicable

Fire Fighting Advice : The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic compounds might burn. Not considered as a significant fire risk.

## 6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contact. Sweep, vacuum or shovel spilled material whilst trying to minimize dust generation. Dispose according to local authority guidelines. Do not allow material to enter drain or waterways.

## 7. HANDLING AND STORAGE

Handling : Avoid direct contact with skin and eyes. Bagged material should be stacked in a safe and stable manner.

Storage : Store in a dry place in the original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Engineering Controls

Avoid generating any vapour or fumes. Where vapour or fumes could be generated whilst handling product, use local mechanical ventilation or extraction to minimize exposure to those involved.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

### 8.2 Personal Protection

When handling or mixing the liquid product, avoid inhaling the fumes and vapour. Wear dust mask, safety glasses, chemical resistant apron and impervious gloves. Precaution should be taken to avoid skin or eye contact or ingesting the product. Always wash hand before eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Pale red liquid
<b>Odour</b>	: Not available
<b>pH</b>	: Not available
<b>Solubility</b>	: Miscible
<b>Specific Gravity</b>	: Not applicable
<b>Vapour Pressure</b>	: Not applicable
<b>Vapour Density</b>	: Not applicable
<b>Viscosity</b>	: Not applicable
<b>Freezing Point</b>	: Not applicable
<b>Flammability</b>	: Not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Stability

Stable at normal temperatures.

### 10.2 Materials and Conditions to Avoid

Avoid contamination of water, food stuffs.

### 10.3 Hazardous Decomposition Products

Decomposes on heating and may produce carbon monoxide and carbon dioxide and other pyrolysis products typical when burning organic materials.  
May emit acrid smoke.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Ingestion

The material has not been classified as “harmful by ingestion” due to the lack of testing and evidence. Material may still be damaging to health if ingested.

### 11.2 Inhalation

The material is not shown to produce any adverse health effects or irritation of the respiratory tract. However, it is still advised to not inhale any fumes from the product.

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## **11. TOXICOLOGICAL INFORMATION (Continued)**

### **11.3 Eye Contact**

May cause discomfort and irritation.

### **11.4 Skin Contact**

Do not expose open cuts, abraded or irritated skin with this material.

## **12. ECOLOGICAL INFORMATION**

This product is not biodegradable. Avoid contaminating waterways.

## **13. DISPOSAL CONSIDERATIONS**

Product should be disposed in accordance with local regulations and legal requirements.

## **14. TRANSPORT INFORMATION**

No special packaging requirement. Not classified as dangerous goods under the United Nations Transport Recommendations.

## **15. REGULATORY INFORMATION**

Not classified as dangerous under current regulation.

## **16. OTHER INFORMATION**

The information contained in this MSDS is provided for use in assessing the hazardous nature of material. Information was prepared carefully, using current references available to us. Information provided is to be the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself/ herself as to the suitability and completeness of information provided here for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.