

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.

Material Safety Data Sheet

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.

Material Safety Data Sheet

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

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

Material Safety Data Sheet

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.