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**MATERIAL SAFETY DATA SHEET**  
 Updated : Jan 2011

**Silane Mix – 1252, 1286, 1287, 1298**

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

1.1. Trade Name : PERFORMIX 1252  
 PERFORMIX 1286  
 PERFORMIX 1287  
 PERFORMIX 1298  
 1.2. Chemical nature : Modified Vinyl-Silane  
 1.3. Company : Alchemix Pte Ltd, 8 Penjuru Place,  
 #01-39, Singapore 608780  
 1.4. Emergency Contact : (65) 62623393

**2. COMPOSITION / INFORMATION ON INGREDIENTS**  
 Modified Vinyl-Silane : > 50%

**3. HAZARD IDENTIFICATION**

Main hazards and effects : Flammable. Storage above 65°C may result in exothermic reaction and fire.

**4. FIRST AID MEASURES**

4.1. Swallowing : Induce vomiting. Obtain medical attention immediately.  
 4.2. Inhalation : Provide fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.  
 4.3. Skin contact : Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.  
 4.4. Eye contact : Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.  
 4.5. Notes to physician : This product reacts with moisture in the acid contents of the stomach to form low molecular alcohol, inclusive of methanol and ethanol.

**6. ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions : Wear suitable protective equipment.  
 6.2. Environmental precautions : Prevent runoff.  
 6.3. Methods for cleaning up : Cover with absorbent or contain. Collect for disposal. Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazards.

**7. HANDLING AND STORAGE**

7.1. Advice on safe handling : Do not swallow. Electrically bond and ground all containers and equipment. Avoid breathing vapour. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
 7.2. Ventilation : stored product in closed container to keep vapours in and keep moisture out. General mechanical room ventilation is expected to be satisfactory. Special, local ventilation is needed at points where vapours can be expected to escape to the workplace air.  
 7.3. Storage requirements : Keep away from heat, sparks and flame. Keep container closed.  
 7.4. Do not store or stow drums of this product at temperature: > 65 °C. Exposure to these elevated temperatures may result in exothermic reaction and fire. Prolonged storage above 30°C may affect product performance and shorten the expected shelf- life of this product.

**5. FIRE-FIGHTING MEASURES**

5.1. Suitable extinguisher media : Water, foam, CO<sub>2</sub>, dry chemical.  
 5.2. Unsuitable extinguisher media: NONE  
 5.3. Special fire fighting procedures : not required.  
 5.4. Special protective equipment for fire-fighters : Self-contained breathing apparatus. Body covering protective clothing.  
 5.5. Unusual fire and hazards : Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. When this material is exposed to extreme heat, as in a fire, it may polymerize and rupture a closed container. Vapour may be ignited by static sparks. Use proper bonding and grounding during material transfer.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1. Exposure limits : Not determined  
 8.2. Respiratory protection : Self-contained breathing apparatus in high vapour concentrations.  
 8.3. Recommended material of protective gloves : Butyl, Neoprene, Nitrile (NBR), PVC-coated.  
 8.4. Eye protection : Safety glasses.  
 8.5. Other protective equipment : Chemical apron, Eye bath, Safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance  
 Physical state : Clear Liquid  
 Colour : Straw to brownish  
 Odour : Ester  
 Other properties (typical)  
 Boiling point : 160°C at 1.013 hPa  
 Melting point : < 0 °C (estimated)  
 Flash point : 44°C (estimated)  
 Relative Density : 0.91 at 25 °C (estimated)  
 Vapour pressure : 7.0 hPa at 20°C (approximately)  
 Vapour density : Heavier than air (air = 1)  
 Solubility in water : Reacts slowly  
 Molecular weight : Mixture

## 10. STABILITY AND REACTIVITY

10.1. Stability : Stable under normal conditions.  
10.2. Incompatible materials : Mineral acids. Oxidizing agents. Reducing agents. Transition metal salts.  
Reacts with water or moisture to form low molecular alcohol.  
10.3. Hazardous combustion products : Burning can produce the following combustion products: oxides of carbon, oxides of tin, oxides of silicon.  
Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Carbon monoxide may be emitted during combustion and it is highly toxic if inhaled.  
10.4. Polymerization : May occur. SADT value > 75°C  
10.5. Conditions to avoid : Oxidizing agents. Water. Polymerization catalysts. Reducing agents.  
Storage where temperatures exceed: > 65°C

## 11. TOXICOLOGICAL INFORMATION

### SWALLOWING

Acute effects : May cause burning or painful sensations.  
May be affected : mouth, throat, chest and abdomen.  
Acute oral toxicity ; LD50 - Rats  
Result: > 5.000 mg/kg (Very low order of toxicity)

### SKIN ABSORPTION

Acute effects : No evidence of harmful effects from available information.  
Acute dermal toxicity : LD50  
Result: > 2.000 mg/kg (Very low order of toxicity)

### INHALATION

Acute effects : Short term harmful health effects are not expected from vapour generated at ambient temperature.  
Effects of repeated overexposure : Vapour may cause injury to the kidney and urinary bladder following repeated exposure to vapour concentration greater than 100 ppm  
Acute inhalation toxicity : LC50 - Rats  
Result: 35 mg/l

Exposure time: 4 h  
Slight order of toxicity

### SKIN CONTACT

Acute effects : Causes irritation, discomfort, local redness, possible swelling. Effects may be prolonged.  
Effects of repeated overexposure through skin contact : may cause severe cumulative dermatitis  
Skin irritation: mild to Moderate irritation

### EYE CONTACT

Acute effects : Liquid or vapour causes irritation, excess blinking, tear production, excess redness of the conjunctivae, swelling of the conjunctivae.  
Eye irritation : minimal to mild irritation

## MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

Overexposure may aggravate : an existing kidney / liver disease

Skin contact may aggravate : an existing dermatitis  
Vapour / Mist may aggravate : asthma and inflammatory or fibrotic pulmonary disease

## 12. ECOLOGICAL INFORMATION

General : All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

## 13. DISPOSAL CONSIDERATIONS

This product should be disposed of as a dilute solution. Dissolve in a suitable solvent. Incinerate in a furnace where permitted under national and local regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

Proper shipping name FLAMMABLE LIQUID, N.O.S.  
Technical description Modified Vinyl-silane  
Class 3, 31c  
Identification 1993  
Kemler number 30  
Label 3

### IMDG

Proper shipping name FLAMMABLE LIQUID, N.O.S.  
Technical description Modified Vinyl-silane  
Class 3.3  
UN 1993  
Packing group III  
EMS-number 3-07  
MFAG-number SUBS. 4.2  
Label 3 (Flammable)  
Stowage Regulations Passenger CAT. A  
Cargo CAT. A

### ICAO

Proper shipping name FLAMMABLE LIQUID, N.O.S.  
Technical description Modified Vinyl-silane  
Class 3  
UN 1993  
Packing group III  
Label 3 (Flammable)  
Passenger Packing 309 (Max qty per package 60L)  
Cargo Packing 310 (Max qty per package 220L)

## 15. REGULATORY INFORMATION

### EC classification

Risk phrases : R10 Flammable  
Safety phrases : Do not store or stow at temperature above 65°C

## 16. OTHER INFORMATION

Recommended uses and restrictions : Please consult the product and/or application information bulletins for this product.  
The opinions expressed herein are provided in the best of our knowledge. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Alchemix Pte Ltd, it is the user's obligation to determine the conditions of safe use of the products.

## About the company

Alchemix Pte Ltd is a Singapore registered company specializing in technology transfer, development and production of specialty products for the cable industry. Kindly contact us at [plexchem@singnet.com.sg](mailto:plexchem@singnet.com.sg) if you need further information.

