

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Maxplus Silicone Acetic	<b>Region</b>	New Zealand
<b>Product Type</b>	Silicone	<b>Contact Person</b>	Tilemax Limited
<b>Company Address</b>	Tilemax Limited 27 Te Puni Street, Petone, Lower Hutt 5012	<b>Phone Number</b>	04 568 5570

### 2. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Warning: May cause skin irritation or reaction, may cause serious eye irritation

HAZARD CLASS	HAZARD CATEGORY
Skin Irritation	2
Eye Irritation	2A
Skin Sensitisation	1

#### PICTOGRAM(S)



#### Precautionary Statements

<b>Prevention</b>	Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.
<b>Response</b>	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention If eye irritation persists: Get medical attention. Remove contaminated clothing.
<b>Storage</b>	This product must be stored in a cool, dry, ventilated and shady area below 27° C.
<b>Disposal</b>	Allow any unwanted product to harden and dispose with trash or as per local council body requirements.

### 3. COMPOSITION/ INGREDIENT INFORMATION

Hazardous Component(s)	CAS Number	Percentage*
Distillates (petroleum) hydro-treated middle	64742-46-7	35
Silicon dioxide	7631-86-9	35
Substituted Silane	7803-62-5	10
Titanium dioxide	13463-67-7	10
Acetic acid	64-19-7	10

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protection.

### 4. FIRST AID MEASURES

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
<b>Skin Contact</b>	Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Do not induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
<b>Symptoms</b>	See Section 11.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	Foam, Dry Chemical or Carbon Dioxide
<b>Special Firefighting Procedures</b>	None
<b>Unusual Fire or Explosion Hazards</b>	None
<b>Hazardous Combustion Products</b>	Oxides of Carbon. Formaldehyde, Oxides of Silicone

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection as recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental Precautions</b>	Do not allow product to enter sewer or waterways.
<b>Clean-Up Methods</b>	Scrape up as much material as possible and store in a closed container until disposal. Spilled material will solidify. Maintain good ventilation for large spills.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Do not handle contact lenses until all sealant has been removed from hands as residual sealant may transfer to lenses and cause eye irritation.
<b>Storage</b>	Keep container closed. Store in a dry area below 27C

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AHIA WEEL	OTHER
Distillates (petroleum), hydro-treated	5 mg/m <sup>3</sup> TWA Inhalable fraction	5 mg/m <sup>3</sup> PEL Mist.	None	None
Silicon dioxide	6 mg/m <sup>3</sup> TWA	20 MPPCF TWA 0.8 mg/m <sup>3</sup> TWA	None	3 mg/m <sup>3</sup> TWA Respirable fraction
Substituted Silane	None	None	None	None
Titanium dioxide	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> PEL Total dust.	None	None
Acetic acid	15ppm STEL 10 ppm TWA	10 ppm(25 mg/m <sup>3</sup> ) PEL	None	None

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Use local ventilation if general ventilation is insufficient to maintain vapour concentration below established exposure limits.
<b>Respiratory Protection</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Eye/Face Protection</b>	Safety goggles or safety glasses with side shields.
<b>Skin Protection</b>	Use of Butyl or Nitrile Rubber gloves is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Paste
<b>Colour</b>	Variable
<b>Odour</b>	Acetic Acid
<b>Odour Threshold</b>	N/A
<b>pH</b>	N/A
<b>Vapour Pressure</b>	<10mm hg (23C)
<b>Boiling Point/Range</b>	N/A
<b>Melting Point/Range</b>	N/A
<b>Specific Gravity</b>	1 at 23C
<b>Vapour Density</b>	Heavier than Air
<b>Flash Point</b>	>93C
<b>Flammable/Explosive Limits - Lower</b>	4% (Acetic Acid)
<b>Flammable/Explosive Limits - Upper</b>	19.9% (Acetic Acid)
<b>Autoignition Temperature</b>	N/A
<b>Solubility in Water</b>	Polymerises in Presence of Water
<b>Partition Coefficient (n-octanol/water)</b>	N/A
<b>VOC Content</b>	3%: 30g/1
<b>Viscosity</b>	N/A
<b>Decomposition Temperature</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable
<b>Hazardous Reactions</b>	Will not Occur
<b>Hazardous Decomposition Products</b>	Formaldehyde. Oxides of carbon. Oxides of silicon. Acetic acid is released slowly upon contact with moisture.
<b>Incompatible Materials</b>	Bases. Oxidising Agents. Water Acids
<b>Reactivity</b>	N/A
<b>Conditions to Avoid</b>	Prolonged heating at temperature above 150C. Exposure to moisture.

## 11. TOXICOLOGICAL INFORMATION

<b>Relevant Routes of Exposure</b>	Skin, Inhalation, Eyes
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### Potential Health Effects/Symptoms

<b>Inhalation</b>	<p>When heated to temperatures exceeding 150C in the presence of air, silicone may release formaldehyde vapours.</p> <p>Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapours irritate the eyes, nose and throat. Safe handling conditions will limit.</p> <p>Acetic acid produced during cure time may irritate eyes,nose and throat.</p>
<b>Skin Contact</b>	Can cause skin irritation. May cause allergic skin reaction.
<b>Eye Contact</b>	Causes serious eye irritation
<b>Ingestion</b>	Under normal conditions of use, not expected to be harmful by ingestion.

<b>Hazardous Component(s)</b>	<b>LD50s and LC50s</b>	<b>Immediate and Delayed Health Effects</b>
Distillates (petroleum) hydro-treated middle	None	Irritant
Silicon dioxide	Oral LD50(RAT)= >22,500 mg/kg	Nuisance Dust
Substituted Silane	None	Irritant, Allergen
Titanium dioxide	None	Irritant, Respiratory, Some evidence of carcinogenicity
Acetic acid	Oral LD50(RABBIT)=1,200 mg/ kg Oral LD50(RAT)=3.53 g/kg Oral LD50(RAT)=3.31 g/kg Dermal LD50(RABBIT)=1,060 mg/kg Inhalation LC50(RAT,4h)=11.4mg/l	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Distillates (petroleum) hydro-treated middle	No	No	No
Silicon dioxide	No	No	No
Substituted Silane	No	No	No
Titanium Dioxide	No	Group 2B	No
Acetic Acid	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological Information: Not Available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for used product only

<b>Recommended Method of Disposal</b>	Follow all local body council requirements for disposal.  Cured rubber can be incinerated or land-filled following EPA and local regulations.
<b>Hazardous Waste Number</b>	Not a RCRA hazardous waste

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### International Air Transportation (ICATO/IATA)

Proper Shipping Name	Not Regulated
Hazard Class or Division	None
Identification Number	None
Packing Group	None

### Water Transportation (IMO/IMDG)

Proper Shopping Name	Not Regulated
Hazard Class or Division	None
Identification Number	None
Packing Group	None