



SS10 SHOWER SEAL

MATERIAL SAFETY DATA SHEET

Section 1: Substance/preparation and company identification

Company:

Warrior Pte Ltd

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Section 2: Composition/information on ingredients

- CAS No.: 2943-75-1
- Material: n-Octyltriethoxysilane
- Content (%): 40%

Section 3: Hazardous identification

Potential health effects:

- Eye: Direct contact may cause severe irritation.
- Skin: May cause mild irritation.
- Inhalation: Irritates respiratory passages very slightly.
- Oral: Low ingestion hazard in normal use.

Prolonged/ repeated exposure effects:

- Skin: Overexposure may injure internally if absorbed.
- Inhalation: No known applicable information.
- Oral: Overexposure by ingestion may injure the following organs - nervous system, brain, thymus, bladder, spleen.

Section 4: First-aid measures

General advice:

- Remove contaminated clothing immediately.

If inhaled:

- Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

- Quickly but gently blot or brush away excess chemical. Immediately flush with water for 15 minutes. Seek medical attention.

On contact with eyes:

- Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. If contact lens is present. **DO NOT** delay irrigation or attempt to remove lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Consult an eye specialist.



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On ingestion:

- Rinse mouth immediately and then drink plenty of water, seek imedical attention.

Section 5: Fire-fighting measures

Flammable properties:

- Boiling point: 100°C at 1013hPa
- Ignition temperature: Not determined
- Flash point: > 100°C
- Explosion limits (Lower) Not determined
- Explosion limits (Upper) Not determined

Suitable extinguishing media:

- Water spray, foam and carbon dioxide.

Unsuitable extinguishing media:

- Dry powder.

Special exposure hazards arising from substance:

- None.

Special fire-fighting procedures:

- Self-contained breathing apparatus and protective clothing should be worn when fighting chemicals fires. Determine the need to evacuate or isolates the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Section 6: Accidental release measures

Methods for cleaning up or taking up:

- Determine the need to evacuate or isolates the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean the area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or de-tergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.



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Section 7: Handling and storage

Handling:

- Use with adequate ventilation. Product evolves flammable ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Do not take internally. Product evolves minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage.

Storage:

- Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

Section 8: Exposure controls and personal protection

Engineering Controls:

- Local Ventilation Recommended
- General Ventilation Recommended

Personal Protective Equipment:

- Eyes: Use proper protection-safety glasses as a minimum
- Hand: Chemical protective gloves should be worn use Shield TM /4H . Regarding the glove's breakthrough time, contact your chemical protective glove supplier.
- Respirators: In case of long or strong exposure use gas mask filter ABEK.

Section 9: Physical and chemical properties

Appearance:

- Physical State: Liquid
- Color: White
- Odour: Some odour

Safety parameters:

- pH: value not determined
- Boiling Point: 100°C at 1013hPa
- Viscosity: 50cSt
- Freezing/Melting Point: Not determined
- Ignition Temperature: Not determined
- Auto-ignition Temperature: > 100°C
- Flash Point: >100°C
- Explosion Limits: Lower not determined
- Explosion Limits: Upper not determined
- Vapor pressure: Not determined
- Solubility in water: Not determined
- Specific Gravity/Density: 1.0 g/cm³ at 25°C



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Section 10: Stability and reactivity

Chemical stability:

- Stable

Conditions to avoid:

- None known

Materials to Avoid:

- Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

Hazardous Decomposition Products:

- Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products - Silica, Carbon Oxides and traces of incompletely burned carbon compounds, Formaldehyde, Hydrogen, Nitrogen products and Chlorine compounds.

Section 11: Toxicological information

- On contact with eyes: Slightly irritating
- On skin contact: Irritating
- If inhaled: No adverse effects are normally expected
- On ingestion: No adverse effects are normally expected
- Other health hazard information:

Product may emit formaldehyde vapour at temperatures above 150°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

Section 12: Ecological information

Environmental fate and distribution:

- Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded.

Ecotoxicity effects:

- No adverse effects on aquatic organisms.

Bioaccumulation

- No bioaccumulation potential.

Fate and effects in waste water treatment plants

- Removed > 90% by binding onto sewage sludge. No adverse effects on bacteria. The siloxanes in this product do not contribute to the BOD.



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Section 13: Disposal considerations

- Must be dumped or incinerated in accordance with local regulations.

Section 14: Transportation information

US DOT & CANADA TDG SURFACE

- Valuation.....: Not regulated for transport

Transport by sea IMDG-Code

- Valuation.....: Not regulated for transport

Air transport ICAO-TI/IATA-DGR

- Valuation.....: Not regulated for transport

Section 15: Regulatory information

Labeling according to EEC Directive

EU Hazard Symbols:

- Xi Irritant

EU Risk Phrases:

- R38 Irritating to skin

EU Safety Phrases:

- S12 Do not keep the container sealed.
- S16 Keep away from sources of ignition – No smoking
- S23 Do not breathe spray.
- S25 Avoid contact with eyes.
- S37 Wear suitable gloves.
- S51 Use only in well-ventilated areas.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Status

- **EINECS:** All ingredients listed, exempt or notified (ELINCS).
- **TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances
- **AICS:** All ingredients listed, exempt or notified.
- **IECSC:** All ingredients listed or exempt.
- **KECL:** All ingredients listed, exempt or notified.
- **PICCS:** All ingredients listed, exempt or notified.
- **DSL:** All ingredients listed or exempt.



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Section 16: Other information

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: war99@singnet.com.sg
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.