

MATERIAL SAFETY DATA SHEET

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Product Name: **SealXpert™ PS110 TITANIUM REPAIR PUTTY**
MSDS No: 159

Revision No: 1

Issued by : Sam
Issue Date: 02 July 2014

Section 1 – Company Details

Company Name: SealXpert™ Products

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Singapore 415979

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Section 2 – Composition

INGREDIENTS	CAS No	Content (Wt%)
Epoxy Resin	23068-38-36	20-30
Toughening Agent		5-10
Curing Agent		10-20
Magnesium silicate hydrate	14807-96-6	50-70
Titanium dioxide	13463-67-7	10-20

It does not contain asbestos, lead (Pb), mercury (Hg) and Chrome (Cr6+)

Section 3 – Hazards Identification

Hazards Identification : Non-hazardous Substance. Not classified as dangerous goods.

Human Health Hazards : May cause sensitization by contact with eye.

Safety Hazards : Avoid contact with eye

Environmental Hazards : Non-toxic to aquatic organisms

Other Information : The product slightly irritates skins and eyes, it may cause allergic dermatitis

Section 4 – First Aid Measures

Inhalation : Provide fresh air. If breathing becomes difficult, call physician.

Skin : Avoid contact with skin. Wash thoroughly with soap and water.

Eyes : Avoid contact with eye. In case of contact with eyes, rinse immediately with plenty of water and consult a physician.

Ingestion : If swallowed, seek medical ad ice immediately and show this container or label.

Keep out of reach of children.

Unlikely route of entry.

Section 5 – Fire Fighting Measures

Specific Hazards: Nil.

Extinguishing Media: H₂O spray, foam, CO₂, dry chemicals or foam

Unsuitable Extinguishing Media: Nil

Protective Equipment: Fire fighters to wear self -contained breathing apparatus and full protective clothing.

Other Information: Keep undamaged product cool with H₂O fog while fighting fire.

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Section 6 – Accidental Release Measures

- Personal Precautions:** Remove all possible sources of ignition in the surrounding area.
- Environmental Precautions:** Prevent from spreading or entering into drains and surface waters (e.g. lakes, ponds, ditches, rivers and streams) by using sand, earth, or other appropriate non-combustible barriers.
- Clean-up Methods (Small Spillages):** To minimize soil and groundwater contamination, absorb liquid with sand earth or other recommended absorbent material. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.
- Clean-up Methods (Large Spillages):** Prevent from spreading by making a barrier with sand, earth or other containment material. Dispose of as for small spills.
- Maritime Spillages:** Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex 1 Regulation 26.

Other Information Observe all relevant local regulations.

Section 7 – Handling and Storage

- Handling:** Wear protective glove and safety glasses while handling uncured product. Uncured product will adhere to clothing. Maintain high standards of personal hygiene, washing hands after coming in contact with product.
Avoid eye and skin contact.
- Storage:** Store in cool, dry and well-ventilated area out of direct sunlight. Store away from all heat sources. Optimum storage conditions 4 - 30°C.

Section 8 – Exposure Controls / Personal Protection

- Respiratory Type :** Avoid breathing of dust, vapours, mists or spray. Where ventilation is inadequate and dusts, vapors or mists are generated the use of a respirator with filter is recommended. Filter capacity and respirator type depends on exposure levels.
- Eye Protection:** Eye/ face protection. Non-fogging chemical safety goggles or safety glasses with side shields.
- Glove Type :** Wear suitable impervious protective gloves such as PVC or Nitrile gloves.
- Clothing :** Wear suitable impervious protective clothing.

Section 9 – Physical and Chemical Characteristics

- Appearance:** Grey colour paste
- Odor:** Slight
- pH:** N/A
- Water Solubility:** Little
- Specific Gravity:** 2.36
- Steam Pressure:** Nil
- Steam Density:** Nil
- Volatilization Velocity (Ether=1):** Nil

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Section 10 – Stability and Reactivity

Stability	Stable
Products to Avoid :	Strong oxidant, strong acid, strong alkali, primary aliphatic amine and secondary aliphatic amine
Hazardous Reactions :	Extreme heats, sparks, and open flame. Exothermic reaction will occur with some curing agent, a great deal of heat will be produced, which may cause polymerization reaction.
Hazardous Decomposition :	None
Conditions to Avoid :	Keep away from heat source over 150°C

Section 11 – Toxicological Information

Health Harm:	Refer to section 3
Sensitization:	Not known
Denaturalization:	Not known
Procreation Transmissibility:	Not known
Cancer:	Not known
Other danger information:	Unavailable

Section 12 – Ecological Information

Ecotoxicity:	No useful data.
Environmental Influence :	No harmful effect to aquatic organisms
Persistence / Degradability:	Components are inherently biodegradable
Bioaccumulation :	Nil

Section 13 – Disposal Considerations

Waste Disposal : Solid waste landfill or authorized incineration

Section 14 – Transportation Information

Transportation: Not classified as Dangerous Goods and can be transported by Road, Rail and Air.
The item is not restricted or not regulated as per IATA

Section 15 – Regulatory Information

Regulation: Observe the governmental or local regulations to use the chemical product safely.

Section 16 – Other Information

Warning to users:

This data sheet completes the technical notices but does not supersede them. The information contained in it is grounded to the statement of our knowledge of the product concerned at the publishing date. Moreover, user's attention should be drawn on the possible risks incurred when a product is used for other purposes than those for which it has been designed. It does not stop in any case the user knowing and following the whole regulatory texts related to his activity. He will be the sole responsible of the precautions related to the use of the products he knows. The aim of the whole regulatory prescriptions mentioned is to help the receiver to fulfil his duties when using the product. This list must not be considered as exhaustive. It does not top the user from making sure that he complies with the written obligations other than those previously cited and which rule the fact of keeping and using the product for which he is the sole responsible person.