

MATERIAL SAFETY DATA SHEET

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Product Name: **SealXpert™ PS109 SUPERMETAL EPOXY PUTTY**
MSDS No: 154 Revision No: 1

Issued by : Sam
Issue Date: 08 May 2014

Section 1 – Company Details

Company Name: SealXpert™ Products
Address: 60 Kaki Bukit Place #09-11 Eunos Techpark
Singapore 415979
Tel: +65 6742 4992/6742 4998
Fax: +65 6749 6916
Email: mailbox@sealxpert.com

Section 2 – Composition

INGREDIENTS	CAS No	Content (Wt%)
Epoxy Resin	25068-38-6	30-40
Toughening Agent		5-10
Stainless Steel	12597-69-2	10-20
Iron	7439-89-6	10-20
Silicone dioxide	7631-86-9	10-20
Curing agent	Trade secret	10-25

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

Section 3 – Hazards Identification

Toxicity: The product is slightly irritating to skin and eyes, it may cause allergic dermatitis.
Primary route of entry: Skin and eyes contact.
Physical Sign and Symptoms: For sensitive individuals, skin contact may cause allergic dermatitis; eye contact can cause moderate irritation.
Effect of excessive contact: Long-term or repeated exposure will aggravate existing skin disease and allergies. Accidental ingestion can cause alimentary tract damage.

Section 4 – First Aid Measures

Inhalation : Move to fresh air, if symptom goes on, get medical attention immediately.
Skin : If skin contact, wipe away immediately, then rinse skin with detergent and water, remove contaminated clothes and shoes. Other symptoms should seek medical attention immediately.
Eyes : Rinse eyes with clean water for at least 15 minutes immediately, and get medical attention.
Ingestion : Don't induce vomiting, keep calm down and get medical attention.

Section 5 – Fire Fighting Measures

Flash Point and Method: >93°C Tagliabue closed cup
Ignition temperature: Not determined
Explosive limit-upper: Not determined
Explosive limit-lower: Not determined
Danger Property: None
Extinguisher media: Water, soil, carbon dioxide, foam, and dry powder extinguishing agent.

Special fire-fighting Instructions and equipment:

As in large fire relating to chemical product, wear positive-pressure, self-contained breathing apparatus and full protective gear. Decide whether to remove or separate this area according to local urgency program.

Harmful burnt products: Carbon monoxide, carbon dioxide, nitrogen dioxide and a trace of unburned carbide.

Extinguisher media to avoid: Not determined

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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:** Iron Color
- Odor:** Slight
- PH:** N/A
- Water Solubility:** Slight
- Specific Gravity:** 1.60
- Steam Pressure:** Nil
- Steam Density:** Nil
- Volatilization Velocity (Ether=1):** Nil

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Section 10 – Stability and Reactivity

Stability : Stable

Hazardous polymerization: Exothermic reaction will occur with some curing agent, release a mass of heat, lead to polymerization, which is not controllable.

Incompatibility: Strong oxidant, strong acid, strong alkyl, primary aliphatic amine, secondary aliphatic amine.

Conditions to avoid: Keep away from heat resource which is over 150°C.

**Harmful decomposed production:
(When not hot decomposition):** None.

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 according to Singapore Code for Transport of Dangerous Goods by Road, Rail and Air.

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.