

# MATERIAL SAFETY DATA SHEET

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Product Name: **SEALXPERT® STEEL REPAIR LIQUID-RESIN**  
MSDS No: 174

Revision No: 0

Issued by: Yogesh  
Issue Date: 15 October 2015

## 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

Ingredient	CAS NO.	Content (Wt%)
Silicon dioxide	7440-21-3	9.9-11
Iron oxide	7439-89-6	48.6-53.7
Bisphenol A diglycidyl ether resin	25068-38-6	30.5-33.7
Titanium dioxide	7440-32-6	3.1-3.4
Aluminum flake	7429-90-5	1.2-1.3

## Section 3 – Hazardous Identification

Route of exposure: Eyes. Skin. Inhalation. Ingestion.

Potential health effects:

**Eye:** Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

**Skin:** Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

**Inhalation:** Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

**Ingestion:** Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Chronic health effects:** Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

**Signs/Symptoms:** Overexposure can cause headaches, dizziness, nausea, and vomiting.

**Target organs:** Eyes. Skin. Respiratory system. Digestive system.

**Aggravation of pre-existing conditions:** Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

## Section 4 – First Aid Measures

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers and get immediate medical attention.

**Skin contact:** Immediately wash skin with plenty of soap and water for 15 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## Section 5 – Fire Fighting Measures

**Firefighting instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

**Suitable extinguishing media:** Use carbon dioxide (CO<sub>2</sub>) or dry chemical when fighting fires involving this material.

**Unsuitable extinguishing media:** Water or foam may cause frothing.

**Protective equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

**Unusual fire hazards:** Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300°F in the presence of air may cause slow oxidative decomposition and above 500°F may cause polymerization.

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## Section 6 – Accidental Release Measures

Personnel precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions: Avoid runoff into storm sewers, ditches, and waterways.

Spill cleanup measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Other precautions: Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in Section 8.  
Pump or shovel to storage /salvage vessels.

## Section 7 – Handling and Storage

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

Special handling procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Hygiene practices: Wash thoroughly after handling.

## Section 8 – Exposure Controls / Personal Protection

Eye protection: Wear appropriate protective glasses or splash goggles.

Skin protection: Wear appropriate protective gloves and other protective apparel to prevent skin contact.

Respiratory system protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

## Section 9 – Physical and Chemical Characteristics

Physical state appearance: Viscous. Liquid.

Color: Dark gray

Odor: Slight. Odor.

Boiling point: >500°F (260°C)

Melting point: Not determined.

Specific gravity: 2.8

Solubility: Negligible.

Vapor density: >1 (air = 1)

Vapor pressure : 0.03 mm Hg @171°F

Percent volatile : 0

Evaporation rate : <<1 (butyl acetate = 1)

pH: Neutral.

Molecular formula : Mixture

Molecular weight: Mixture

Flash point: >400°F (204.4°C)

Flash point method: Pensky-Martens Closed Cup

Lower flammable /Explosive limit: Not determined.

Upper flammable /Explosive limit: Not determined.

Auto ignition temperature: Not determined.

VOC content: 0 g/L

Percent solids by weight: 100

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## Section 10 – Stability and Reactivity

Stability: Stable under normal temperatures and pressures  
Hazardous polymer: Not reported.  
Incompatibility materials: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).  
Conditions to avoid: Extreme heats, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300°F in the presence of air may cause slow oxidative decomposition.

## Section 11 – Toxicological Information

Health Hazard: Refer to section 3  
Sensitization: Not known  
Mutagenicity: Not known  
Procreation Transmissibility: Not known  
Carcinogenicity: Not known  
Other health hazard information: Unavailable

## Section 12 – Ecological Information

Eco toxicity: No eco-toxicity data was found for the product.  
Environmental Fate: No environmental information found for this product.

## Section 13 – Disposal Considerations

Special Instructions: Observe all federal, state and local laws and regulations.

## 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

Observe the governmental or local regulations to use the product safely.

## Section 16 – Other Information

Discard contaminated clothing immediately. Maintain clean equipment and work areas. Avoid inhalation of fumes. Wipe up spills immediately.

### 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 fulfill his duties when using the product. This list must not be considered as exhaustive. It does not stop 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.