

# MATERIAL SAFETY DATA SHEET

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Product Name: **SEALXPERT® RUBBER REPAIR LIQUID-HARDENER**  
MSDS No: 165

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%)
Dipropylene glycol dibenzoate	27138-31-4	60-100
Diethyltoluenediamine	68479-98-1	30-60
Epoxidized soybean oil	8013-07-8	1-5
Carbon black	1333-86-4	0.1-1

## Section 3 – Hazardous Identification

Route of exposure: Eyes. Skin. Inhalation. Ingestion.  
Potential health effects:  
Eye: Can cause severe eye irritation and burns. Eye contact may cause permanent damage or blindness.  
Skin: Causes severe skin irritation. May cause permanent skin damage.  
Inhalation: Vapor or mist may cause severe respiratory system irritation.  
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 may cause eye watering or discomfort, redness and swelling.  
Target organs: Eyes. Skin. Respiratory system. Digestive system.  
Aggravation of pre-existing conditions: May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

## Section 4 – First Aid Measures

Ingestion: If swallowed, do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.  
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek 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.  
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.

## Section 5 – Fire Fighting Measures

Flammable properties: Material supports combustion.  
Flash point: >275°F (135°C)  
Flash point method: Tag closed cup. (TCC)  
Auto ignition temperature: Not determined.  
Lower flammable /explosive limit: Not determined.  
Upper flammable /explosive limit: Not determined.  
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.  
Extinguishing media: Use carbon dioxide (CO<sub>2</sub>) or dry chemical when fighting fires involving this material.  
Unsuitable media: Water or foam may cause frothing.  
Protective equipment: As in any fire, wear Self-Contained Breathing Apparatus (SC BA), MSHA/NIOSH (approved or equivalent) and full protective gear.

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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. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in Section 8.

Other precautions: 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. Do not store in reactive metal containers. Keep away from acids, oxidizers.

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 safety glasses or vented safety goggles.

Skin protection: Wear rubber or plastic gloves.

Respiratory system protection: Use a respirator, unless there is fine ventilation equipment.

## Section 9 – Physical and Chemical Characteristics

Physical state appearance: Liquid.

Color: Brown

Odor: Mild ammonia like

Boiling point: >450°F (232.2°C)

Melting point: Not determined.

Specific gravity: 1.08

Solubility: Negligible

Vapor density: >1 (air = 1)

Vapor pressure : <1 mm Hg @70°F

Percent volatile : 0

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

pH: 7-8 @ 5 Percent Solution

Molecular formula: Mixture

Molecular weight: Mixture

Flash point: >275°F (135°C)

Flash point method: Tag closed cup. (TCC)

Auto ignition temperature: Not determined.

VOC content: 0 g/L

Percent solids by weight: 100

## Section 10 – Stability and Reactivity

Stability: Stable under normal temperatures and pressures

Hazardous polymer: Not reported.

Incompatibility materials: Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium /calcium hypochlorite. Nitrous acid/ oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

Conditions to avoid: Extreme heats, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

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## 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

Environmental effect and distribution:	Reach sewage and sullage by aggradation or agglutination.
Environmental influence:	No harmful effect to aquatic organism.
Biology accumulation:	No biology accumulation ability.

## 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.
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## 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. When adding Hardener to Resin, exothermic reaction occurs within 15 – 20 minutes, reaching temperature of 120°C (248°F). 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.