

# MATERIAL SAFETY DATA SHEET

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Product Name: **WRAP SEAL PLUS™ STANDARD ACTIVATOR**  
MSDS No: 102                      Revision No: 4

Issued by: Sam  
Issue Date: 08 May 2013

## 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	%	EXPOSURE LIMITS
Triethylenetetramine	112-24-3	100	N/A

Source of exposure limit data – ACGIH Treshold Limit Values  
Abbreviations : N/A – Not Applicable

## Section 3 – Hazardous Identification

**Safety Phrases** S1/2: Keep locked up and out of the reach of children.  
S24/25: Avoid contact with skin and eyes.  
S36/37/39: Wear suitable protective clothing, gloves and eye/ face protection.  
S26: In case of eye contact, rinse immediately with plenty of water and seek medical advice  
S28: After contact with skin, wash immediately with plenty of water  
S45: In case of accident or if you feel unwell seek medical advice immediately

## Section 4 – First Aid Measures

**Inhalation:** Remove from exposure, provide fresh air. If breathing becomes difficult, call physician.  
**Skin:** Wash thoroughly with soap and water.  
**Eye:** Wash immediately with plenty of water for 15 minutes and consult a physician  
**Ingestion:** Unlikely route of entry. Drink plenty of water and consult a physician. Do not induce vomiting.  
Keep out of reach of children.

## Section 5 – Fire Fighting Measures

**Flash Point :** 135°C/ 275°C  
**Flammable Limits :** Not available  
**LEL :** Not available  
**UEL :** Not available  
**Extinguishing Media :** CO2, dry chemicals or foam  
**Fire Fighting Procedures :** Wear self-contained breathing apparatus and full protective clothing.  
**Unusual Fire/ Explosion Hazard :** Ignition hazard is slight when exposed to heat or flames. Can react with oxidizing materials.

## Section 6 – Accidental Release Measures

**Personal Precautions:** Remove all possible sources of ignition in the surrounding area.  
**Environmental Precautions:** Do not discharge into drains or river. Contain the spillage using dry sand or earth.  
**Clean-up Methods:** To minimize soil and groundwater contamination, absorb liquid with sand earth or other recommended absorbent material. Wash the spillage with large amount of water.  
**Other Information:** Observe all relevant local regulations.

## Section 7 – Handling and Storage

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**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. Do not store at temperature greater than 51°C/125°F; optimum storage conditions 4°C to 30°C. For best results, rotate stock.

## Section 8 – Exposure Controls / Personal Protection

INGREDIENTS	CAS NO	%	EXPOSURE LIMITS
Triethylenetetramine	112-24-3	100	N/A

**Respiratory Type :**      Avoid breathing of vapours or mists. Use face mask or all-purpose canister respirator with filter (universal type N) when ventilation is inadequate. Filter capacity and respirator type depends on exposure levels.

**Eye Protection:**      Non-fogging chemical safety goggles or safety glasses with side shields.

**Glove Type :**              Suitable impervious protective gloves such as PVC or butyl rubber gloves.

**Clothing :**                 Suitable impervious protective clothing.

## Section 9 – Physical and Chemical Characteristics

**Physical Appearance:**      Semi-viscous Liquid

**Colour:**                      Transparent

**Odor:**                         Mild ammonia odour

**Water Solubility:**          Complete

**Specific Gravity:**          0.98 at 30°C

**Melting Point:**             N/A

**Boiling Point:**              267°C/ 513°F

**Evaporation Rate:**         N/A

**Vapour Pressure:**          < 1.0

**Vapour Density (AIR=1):** 5.0

## Section 10 – Stability and Reactivity

**Stability:**                      Stable

**Stability Conditions to avoid:** Oxidizing material or heating to decomposition

**Materials to Avoid:**          Oxidizing materials

**Hazardous Reactions:**        None

**Hazardous Decomposition:** CO, CO<sub>2</sub>, Ammonia, Nitrogen Oxides

## Section 11 – Toxicological Information

**Inhalation:**                  Mild irritant to respiratory tract with prolonged exposure.

**Skin:**                          There may be slight irritation when contacted with the product.

**Eyes:**                         There may be severe irritation in the eyes when splashed

**Ingestion:**                  Mild irritant to mucous membrane, throat and gastrointestinal tract.

## Section 12 – Ecological Information

**Ecotoxicity:**                  Not available

**Mobility:**                      Not determined

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**Persistence/ Degradability:** Not determined

**Bioaccumulation:** Not determined

## Section 13 – Disposal Considerations

**Spills & Leaks :** Ensure ventilation is adequate to prevent build-up of potentially harmful vapours. Wear protective clothing and equipment to minimize exposure.  
Scrape up material and place into container for disposal. Decontaminate area and equipment with dilute ammonia and detergent. Mix additional adsorbent into spill and dispose.

**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

Not hazardous. Observe the governmental or local regulations to use the product safely.

## Section 16 – Other Information

**Other Precautions:** 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 120C (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.