



MSDS According to 91/155EC

# MSDS

ProV150  
Styrene Free Vinylester

29-07-2007 Rev2

## Material Safety Data Sheet : Page 1 of 4

### 1 COMPANY INFORMATION

Trade Name Supplier	<b>ProV150 Styrene Free Vinylester</b> <b>ProVenture Solutions Ltd</b> Unit B1C ;Towngate Works Dark Lane; Mawdesley L40 2QU 01704 823555 01704 822213 <a href="http://www.proventure.co.uk">www.proventure.co.uk</a>
Telephone Fax Website	

Manufacturer Telephone	AIT, S.L – P.L, La Nava, Parcela B-12,31300,Tafalla, Espana +34 948 74 06 05
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### 2 PRODUCT COMPOSITION

#### 1. Resin-Component A

Substance	CAS r	Nr EINECS	Concentration (%)
HEMA	868-77-9	212-782-2	<10%
VINYLTOLUENE	25013-15-4	246-562-2	<10%
ETHYLENE DIMETHECRYLATE	97-90-5	202-617-2	10-20%

#### 2. Hardener- Component B

Substance	CAS r	Nr EINECS	Concentration (%)
DIBENZOYL PEROXIDE	94-36-0	202-327-6	10-20%

### 3 HAZARDS AND RISK IDENTIFICATION

- **Resin-Component A**  
R36/R38 Irritating to the eyes and skin.  
R43 Contact may cause sensitisation of the skin.
- **Hardener-Component B**  
R36 Irritating to the eyes and skin.  
R43 Contact may cause sensitisation of the skin.

### 4 FIRST AID MEASURES

- **General Instructions** Remove all contaminated clothing immediately.
- **Ingestion** Immediately rinse mouth, drink plenty of water. Seek further medical advice. **Do Not** induce vomiting
- **Contact with the skin** Wash thoroughly with soap and water. Wash or discard any affected clothing. If irritation persists seek further medical advice
- **Contact with eyes** Wash affected area with running water for a minimum of 15minutes with eyes open. If irritation persists consult an eye specialist.
- **Inhalation** Take affected person to a well ventilated area and make comfortable. If problems persist seek medical advice immediately

*Continued on page 2*

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**Material Safety Data Sheet : Page 2 of 4**

**5 FIRE FIGHTING MEASURES**

- **Fire extinction** Dry powders, CO<sup>2</sup> and foam.
- **Exposure risks flammable** When exposed to high temperatures may pressurize and explode. The product emits black acrid irritating smoke when heated until decomposition.
- **Fire extinction** Wear masks to protect from smoke inhalation.

**6 ACCIDENTAL RELEASE MEASURES**

- **Environmental issues** Do not discard into drains, surface water or ground water.
- **Cleaning precautions** Take up mechanically, clean thoroughly with water.
- **Disposal** Remove the product and place in a suitable container for disposal.

**7 HANDLING AND STORAGE**

- **Handling** Keep away from heat and sources of ignition. Do not smoke. Consider manufacturing date displayed on the cartridge. Keep away from reducing agents (amines, acids, alkali and heavy metal compounds)
- **Storage** Product to be kept in original packaging and stored in a cool dark dry place away from any heat sources and direct sunlight. Storage temperature between 5°C -25°C. Keep away from reducing agents( amines, acids, alkali and heavy metal compounds

**8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- **General Protection** Access to skin cream to relieve irritation. Suitable clothing to minimise exposure.
- **Skin Protection** Wear suitable gloves to minimize skin contact.
- **Body Protection** Wear protective clothing where possible.
- **Eye Protection** Wear goggles or suitable eyewear to protect eyes during use.
- **Inhalation** In closed working areas wear face mask to minimize vapour inhalation.

*Continued on page 3*

ProVenture



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## Material Safety Data Sheet : Page 3 of 4

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Component A : Resin		Component B : Hardener	
<b>Form</b>	Amber coloured paste	<b>Form</b>	White Paste
<b>Odour</b>	Characteristics HEMA	<b>Odour</b>	Not Perceptible
<b>Density</b>	1.55g/m <sup>3</sup>	<b>Density</b>	1.45g/m <sup>3</sup>
<b>Flash Point</b>	91°C	<b>Flash Point</b>	Superior SADT (50°C)
<b>Explosion Limits</b>	-	<b>Oxidising Properties</b>	Oxidising
<b>Ignition Temperature</b>	>245°C	<b>Ignition Temperature</b>	>380°C
<b>Solubility</b>	Not Soluble in water	<b>Solubility</b>	Soluble in water

### 10 STABILITY AND REACTIVITY

- **Stability** Stable under normal conditions.
- **Hazardous Reactions** The resin may polymerise exothermically when heated, exposed to air, sunlight or the addition of free radicals.
- **Decomposition** Emits acrid smoke, carbon dioxide and carbon monoxide when Heated.
- **Reactivity** Hardener reacts with acids, alkalis, heavy metals and reducing agents. Avoid contact with rust and do not mix with promoters Resin reacts violently with strong oxidizers and peroxides.

### 11 TOXICOLOGICAL INFORMATION

- **Skin** Irritation and sensitization may occur.
- **Eyes** Irritation and sensitization may occur.
- **Inhalation** Irritant for the lungs, may cause unconsciousness.
- **Acute Oral Toxicology**

Resin	LD50/rat: 2650mg/m <sup>3</sup>
Hardener	LD50/rat: 7710mg/m <sup>3</sup>

### 12 ECOLOGICAL INFORMATION

Do not dispose of the product in water sources.

*Continued on page 4*

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### Material Safety Data Sheet : Page 4 of 4

#### 13 DISPOSAL CONSIDERATIONS

Non cured resin must be placed into a proper container and marked as chemical waste according to local regulations. Small quantities of the resin and the hardener may react together, allowing curing of the resin and can be wasted as solid residue.

#### 14 TRANSPORT INFORMATION

- Label Irritant  
No ONU/No SI: 3269 Vinylester Resin Kit  
Class 3  
Packaging Group III

#### 15 REGULATORY INFORMATION

##### RESIN

R36/37 Irritant for the eyes and respiratory tract. R43 may cause sensitisation in contact with the skin. S24 Avoid contact with the skin. R37 Use suitable gloves.



Xn HARMFUL

##### HARDENER

R07 May cause fires. R36 Irritant to the eyes. R43 May cause sensitization by skin contact. S3 Keep in a cool place. S26 In case of contact with the skin, rinse immediately with plenty of water and seek medical advice. S36/37/39. Wear suitable protective clothing, gloves and eye/face protection.



Xn HARMFUL



O OXIDIZING

#### 15 ADDITIONAL INFORMATION

**Date of elaboration:** September 2007

The information contained here does not constitute any kind of warranty. The end user must consider this as additional information to any other related to this product.

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