

<b>MOLYTEC AUSTRALIA, Unit 1, 9 Steel St, Capalaba, QLD Australia, 4157</b>	
Tel. for Information: (07) 3245 2355 Last Updated: February 2011	Fax for Information: (07) 3245 2499 Page 1 of 2
<b>Material Safety Data Sheet</b>	<b>ULTRALOC XS18 Flange Sealant</b>

## Classified as hazardous according to criteria of NOHSC.

### 1. Chemical Product / Company Identification

Product Name: **XS18 Flange Sealant**  
 25g syringe P/No XS1801 60g tube P/No XS1802, 300g cartridge P/No XS1803  
 Product Type: Anaerobic Sealant  
 Company Details: Molytec Australia P/L 1/9 Steel St Capalaba QLD Australia 4157  
 Phone: 07 3245 2355 Fax: 07 3245 2499

### 2. Hazards Identification

Label Precautionary Statements: This product can cause irritation when in contact with the skin and eyes. AVOID CONTACT. In case of contact with eyes, flush with fresh water for 15 minutes. Consult a doctor. Remove from skin with a dry cloth. KEEP OUT OF REACH OF CHILDREN.

Acute Health Effects: Ingestion: May cause irritation to mouth, throat and stomach.  
 Eye contact: A moderate eye irritant.  
 Skin contact: Repeated or prolonged skin contact may lead to irritation.  
 Inhalation: High concentrations of vapour may cause irritation of the respiratory tract.

Chronic Health Effects: Chronic exposure to vapours may cause inflammation of the nose, mouth, throat and bronchi. (No vapour is emitted after full cure).  
 Other Health Hazard Information: May cause sensitisation by skin contact.  
 Liver tumour were only observed in male rats and mice exposed to high concentrations of 2-butanone oxime (MEKO). Further studies are currently being carried out in order to determine the relevance of this data to humans. As far as we know, under normal conditions of use, this preparation should not present an exposure hazard to man.

### 3. Composition and Information on Harmful Ingredients

Ingredients	Concentration %	CAS #
Polyurethane Methacrylate resin	70-80	Trade Secret
Polyglycol Dimethacrylate Ester	5-10	25852-47-5
Fumed Silica	5-10	112945-52-5
Acrylic Acid*	5-10	79-10-7
Cumene Hydroperoxide*	1-3	80-15-9
Saccharin	0.1-1.0	81-07-2
Cure Accelerants	0.1-1.0	Trade Secret

\*SARA Section 313 Toxic Chemical

### 4. First Aid Measures

Ingestion: Give water or milk to drink. DO NOT induce vomiting. Seek immediate medical assistance.  
 Eye contact: Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.  
 Skin contact: Wash with plenty of soap and water.  
 Inhalation: Remove to fresh air.  
 Advice to Doctor: All treatments should be based on observed signs and symptoms of distress of the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available. Consult Poisons Information Centre.

### 5. Fire Fighting Measures

Fire/Explos. Hazard: Non-flammable paste. Combustible. Will burn if involved in a fire but not considered to be a significant fire risk. The main combustion products are silica, carbon dioxide and carbon monoxide.  
 Worksafe Classification: Xi, R36-43  
 Fire Fighting Precautions: Self-contained breathing apparatus.  
 Extinguishing Media: Fire can be extinguished by carbon dioxide (CO<sub>2</sub>), foam, powders or water spray.  
 Hazardous Reaction: This product is considered stable under normal handling conditions.

### 6. Accidental Release Measures

Spills & Disposal: Normally suitable for local incineration. Consult local regulations. Non-biodegradable.

### 7. Handling and Storage

Storage Precautions: Keep product dry to prevent lumping or possible deterioration.  
 The foregoing data applies to the uncured sealant. The hazards associated with this product are due mainly to the reactive silane crosslinkers, and the vapours given off when the sealant reacts with moisture in the air. When curing is complete, the resulting product is an inert, non-toxic, silicone elastomer.

### 8. Exposure Control and Personal Protection

Avoid breathing in vapours. Use with adequate ventilation.

**Personal Protection**  
 Respirator Type: In the even of insufficient ventilation: Respiratory protective device with a gas filter (AS 1716)  
 Eye Protection: Safety spectacles.  
 Glove Type: Protective gloves made of rubber.  
 Protective Equip: Avoid skin and eye contact. Wear eye protection to prevent any reasonable probability of eye contact.

#### Work/Hygienic Practices

Personal hygiene is an important work practice exposure control measure and the following general measures should be undertaken when working with or handling this material:

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### Exposure Control and Personal Protection (continued...)

Do not store, use, and/or consume foods, beverages, tobacco products or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes of contact with this material.

### Technical Protective Measures

Work outside or in a well-ventilated room. Comply with instructions for use (Refer to Technical Data Sheet).

### Other Precautions

Safe working practice and good hygiene should be observed.

## 9. Physical and Chemical Properties

Appearance: red gel  
Vapour Pressure: >0.1mmGg @ 25°C  
Solubility in water: N/A  
Boiling Point: >150°C  
Odor: low, mild  
Vapour Density: Heavier than Air  
Specific Gravity: 1.1 approx

## 10. Stability and Reactivity

Hazardous Combustion: On combustion forms carbon oxides (CO + CO<sub>2</sub>), nitrogen oxides, silica.  
Decomposition Byproducts: On contact with humidity, during vulcanisation (cure), releases: 2-butanone oxime or (MEKO) – Quantity potentially release: 3.7% of the weight of the product.

## 11. Toxicological information

Methylethylketoxime (MEKO) (2-butanone oxime) released during cure presents a notable risk of toxicity, when in contact with the skin and when large amounts of the product is used in an enclosed area, e.g. a small unventilated bathroom. Limited animal (rat) data showed that at high vapour concentration of methylethylketoxime narcotic effects are observed.

Acute toxicity: 2-butanone oxime  
Ingestion: LD50 (rat) = 2300-3700 mg/kg  
Dermal: LD50 (rat) = >1000 mg/kg  
Inhalation: LC50 (rat) /4h: >4.8 mg/1 (4 hour)

Amorphous silica and other fine powder ingredients are bound in the paste mixture and do not present any risk of toxicity under normal conditions of use and handling.

## 12. Ecological Information

Precipitation: Slightly soluble product, readily forms deposits.  
Expected behaviour of the product: Ultimate destination or the product: Soil and Sediment.  
Effects on the aquatic environment: 2-butanone oxime: LC50 (Fish: Pimphales promelas)/96h: 844 mg/L  
Not biodegradable. Not bioaccumulable. No negative ecological effects are known.

## 13. Disposal Considerations

Normally suitable for local incineration. Consult local regulations. Non-biodegradable.

## 14. Transportation Information

Land: Rail/road (RID/ADR/ADG): Not Restricted Sea: (IMO/IMDG): Not Restricted Air:(ICAO/IATA): Not Restricted

## 15. Regulatory Information

EUROPEAN INFORMATION: **S23** Do Not Breath Gas/Fumes/Vapour/Spray  
**S24** Avoid contact with Skin

## 16. Other Information

Users should verify the currency of this data sheet if more than 5 years old. The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.

### POLICE AND FIRE BRIGADE:

**DIAL 000**

For further safety information contact Denis Brown at MOLYTEC AUSTRALIA on:

P.O. Box 5357, Alexandra Hills, QLD, Australia, 4161

Tel: (07) 3245 2355

Fax: (07) 3245 2499

### Disclaimer

The information contained within this MSDS applies only to the ULTRALOC product to which the sheet relates. The information provided is based on our best knowledge at the time of issue. The information contained within this MSDS is believed to be accurate and is given in good faith. However no warranty is made, either express or implied, regarding its accuracy or any liability arising out of the use of the information herein or the products supplied. When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classification of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases a reassessment may be necessary and should be made by the user. This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work. It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way. They should check the adequacy of the information provided within this MSDS before passing it on to their customers / staff.

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**XS18**