



**MATERIAL SAFETY DATA SHEET**  
**POLYURETHANE BASED COMPONENTS**  
**Ulon HP - Engineered Polyurethane Elastomer**

**1. IDENTIFICATION OF THE ARTICLE AND COMPANY**

**Polyurethane based components**

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**2. COMPOSITION**

Composition Polyurethane solid with polyol, di-isocyanate, additives, fillers, added to obtain specific material properties.

**3. HAZARDS IDENTIFICATION**

Main hazards No significant hazards expected as supplied.

Others Degradation by chemicals, ageing, heat, fire etc may produce a toxic and/or corrosive residue depending on the circumstances of degradation and other materials evolved.

Products of combustion must be considered to be toxic and possibly corrosive.

Hydrogen cyanate can be generated and be present in fumes from fires or high temperature testing/degradation. (See Sections 5 and 10)

**4. FIRST AID MEASURES**

Product inhaled If exposure has been due to processing fume remove affected person to fresh air. Keep warm, ventilate with bag and mask if necessary. Seek medical attention.

Product in eye Flush small particles from eye with clean, sterile water for at least 10 minutes. If irritation persists seek medical attention.

Product on skin No effects requiring first aid are expected. After contact with skin, wash with soap and water.

Product ingested Do not induce vomiting. If conscious, drink copious amounts of water. Seek medical attention.

Note: Degradation products may require specialist medical treatment.



## **5. FIRE FIGHTING MEASURES**

Extinguishing media	Water spray, dry powder, foam or CO2
Explosion hazards	As supplied, product presents no explosion hazard. Most organic powders or dusts, present a dust explosion hazard. Dust generated in use would be capable of being ignited and propagating a flame.
Protection against fire	<p>Wear appropriate full protective clothing to cover all exposed areas of skin, helmet and self-contained breathing apparatus.</p> <p>Personnel without suitable respiratory protective equipment must leave area to prevent significant exposure to decomposition gasses (see section 10).</p> <p>Contain or control large volumes of fire run-off water in accordance with pollution control regulations.</p>

## **6. ACCIDENTAL RELEASE MEASURES**

Spillage	Collect spilled material in a suitable container.
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## **7. HANDLING AND STORAGE**

Storage	Store parts in a cool, well ventilated place away from direct sunlight and sources of ignition.
Handling	Cutting operations should be exhausted to prevent exposure to irritating vapours and dust

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering control measures	<p>None for products as supplied.</p> <p>Provide local exhaust ventilation to minimise dust and/or fume exposure if these are produced during further processing of the articles, or degradation in service, test or storage.</p>
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### ***Occupational Exposure Limits (UK) 8 hour TWA (EH40)***

- Fume See Sections 3 and 5 for decomposition products
- Dust 10 mg/m<sup>3</sup> total inhalable, 4 mg/m<sup>3</sup> respirable (OES)



#### Personal Protective Equipment (PPE)

- Respiratory protection      None under normal conditions (see section 5 for RPE to be used in fire or heat degradation conditions).
- Eye      None under normal conditions. Eye protection should be worn if the product is abraded, drilled, cut etc.
- Skin      None under normal conditions.  
NOTE: Good hygiene practices should be employed when handling rubber products with washing encouraged before taking food at meal breaks, before using toilet facilities and at the end of a working shift.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Coloured solid
Odour	Slight characteristic

### **10. STABILITY AND REACTIVITY**

Stability	Stable
Conditions to avoid	Over heating
Materials to avoid	Avoid strong acids and oxidizers
Hazardous decomposition products	Highly toxic and possibly corrosive decomposition products, including hydrogen cyanate, carbon monoxide, carbon dioxide, oxides of nitrogen and aromatic and aliphatic hydrocarbons.

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity	Not established
Chronic toxicity	Not established
Dermal irritation	Not established
Other health effects	Not established

### **12. ECOLOGICAL INFORMATION**

Ecological effects degradable.	Not established. Material is not expected to be substantially degradable.
CFC's	No CFC's are contained in the product.



### **13. DISPOSAL CONSIDERATIONS**

Product disposal                      Product or contaminated residues must be properly contained. Dispose of at approved landfill sites, or by high temperature incineration, using licensed contractors. Disposal must be in accordance with Local Authority and National Regulations.

### **14. TRANSPORT INFORMATION**

Current UK transportation regulations                      Not classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002, or the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations 1996

### **15. REGULATORY INFORMATION**

Applicable UK legislation:                      Health & Safety at Work etc. Act 1974.  
Control of Substances Hazardous to Health (COSHH) Regulations 2002.

Labelling:                      No labelling required for articles under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.

Risk Assessment                      The information contained in this Safety Data Sheet does not constitute a risk assessment of work activity or the workplace, as required by the Management of Health & Safety at Work Regulations 1999 or the Control of Substances Hazardous to Health (COSHH) Regulations 2002.

### **16. OTHER INFORMATION**

Applicability                      The information contained in this Safety Data Sheet is based on current knowledge and applies to polyurethane products in the "as moulded" condition.

Coatings & Treatments                      Coatings of lubricants or other treatments on PU products may invalidate some of the information given in this document. Product-specific information will be made available on request.

The contents and format of this Safety Data Sheet are in accordance with the Chemicals (Hazard Information & Packaging for Supply) Regulations 1994.

This information is believed to be accurate and is given in good faith. It does not constitute a warranty that the material is fit for any particular purpose. Fitness for purpose must be established by the customer.