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

1. IDENTIFICATION OF THE ARTICLE AND COMPANY

Polyurethane based components

Trelleborg Applied Technologies
Trinity Park, Randall, Retford
Nottinghamshire DN22 7AX, UK
Tel: +44 (0)1777 712500  Fax: +44 (0) 1777 707001

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  
Wear appropriate full protective clothing to cover all exposed areas of skin, helmet and self-contained breathing apparatus.  

Personnel without suitable respiratory protective equipment must leave area to prevent significant exposure to decomposition gasses (see section 10).

Contain or control large volumes of fire run-off water in accordance with pollution control regulations.

6. **ACCIDENTAL RELEASE MEASURES**

Spillage  
Collect spilled material in a suitable container.

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  
None for products as supplied.  
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.

*Occupational Exposure Limits (UK) 8 hour TWA (EH40)*

- Fume  
  See Sections 3 and 5 for decomposition products

- Dust  
  10 mg/m3 total inhalable, 4 mg/m3 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**  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:
- Control of Substances Hazardous to Health (COSHH) Regulations 2002.
- 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.