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UTEK (Suzhou) Sealing Solutions Co. Ltd.

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Material Safety Data Sheet

In accordance with REACH Regulation (EC) No 1907/2006

Product Name: UTEKTHANE-XH

Revision Date: 17 January 2019

1. Identification of the substance

Trade name: UTEKTHANE-XH

Application: material for production of hydraulic and pneumatic seals via machining

Producer: UTEK Sealing Solutions Co., Ltd.
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2. Identification of hazards

This product is not harmful if handled and stored properly.

3. Composition

Chemical description: Polymer based on MDI-Polyurethane

Chemical structure: N/A

4. First Aid measures

Inhalation: In case of accidental inhalation of fumes or thermal decomposition products, don appropriate protective gear and remove victim from the hazard zone. If the person is unresponsive, apply artificial respiration/CPR if necessary. Seek medical help and keep victim calm and warm.

Skin Contact: In case of contact with molten material, immediately cool affected areas with cold water for a prolonged time. Do not use ice to cool.
Remove contaminated clothing. Do not attempt to peel off any polymer stuck to skin. Cover burns with sterile bandages and seek medical attention.

Eye Contact: If a foreign body (splinter, chip) enters the eye do not rub. Rinse immediately with plenty of water and seek medical attention.

5. Firefighting measures

Suitable extinguishing media: Water, alcohol-resistant foam, dry powder, carbon dioxide

Unsuitable extinguishing media: none known

Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide, isocyanate vapors as well as other toxic substances.

Do not inhale fumes.

Special protective equipment for combating fire: Wear self-contained breathing apparatus and protective clothing.

Additional advice: Usual measures for fire with chemicals.

6. Accidental release measures

No environmentally detrimental effects of the material are known, though it is not biologically degradable.

7. Handling and storage

Handling: Avoid overheating of material by improper handling. Avoid dust generation.

For mechanical operations local extraction / ventilation is recommended. Measures must be taken to avoid static electricity discharge if dust is produced.

Storage: The appropriate company regulations for fire prevention must be followed.

Storage class: LGK 11

8. Exposure control / personal protection

Exposure control: Provide sufficient ventilation, especially in closed rooms.

Respiratory Protection: In case of dusty operating procedures, use respiratory protection (e.g. filter mask with P1 filter)

Eye Protection: In case of mechanical operations, wear safety glasses with side pieces.

Skin Protection: Wear protective clothing.

Hygiene Measures: General industrial hygiene regulations are to be observed.

Wash hands before breaks and at the end of work shift. Do not consume food or drink or smoke at the workplace.

9. Physical and chemical properties

Form:	solid (semi-finished, finished parts)	
Color:	Dark Red	
Odor:	typical odor	
Melting point/-range:	> 200°C (> 392F)	(ISO 54765)
Decomposition Temperature:	> 500°C (> 932F)	
Ignition Temperature:	> 370°C (> 698F)	(ASTM D 1929)
Density:	1,18 g/cm ³	(ISO 53479)
Explosion Limits:	N/A	
Solubility:	Insoluble in water	

10. Stability and reactivity

Stability: The material is stable under normal conditions.

Conditions to avoid: Temperatures > 370 °C (> 698F)

Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides, hydrogen cyanide, isocyanate vapors and other toxic substances

Substances to Avoid: oxidizing media.

11. Toxicological information

No adverse effects on health are known from appropriate handling of this material in line with its intended use.

Contact with molten product can cause burns. Dust released through mechanical operations can cause skin, respiratory and eye irritation. Fumes may cause respiratory irritation.

12. Ecological information

No damaging effects on the environment are known of the material; it is not biologically degradable. Due to the material's insolubility in water, separation by filtration or sedimentation is possible.

13. Disposal conditions

Uncontaminated product can be recycled.

If no further use of waste product is possible, it can be mixed with household waste or incinerated in appropriate facilities, in accordance with official local regulations.

Waste product code No.: 20 01 39 (EWC) plastics.

14. Transport information

This product is not classified as dangerous goods under the terms of transport regulations:

ADNR: nonhazardous

ADR: nonhazardous

ICAO/IATA-DGR: nonhazardous

IMDG/UN: nonhazardous

RID: nonhazardous

maillable

15. Regulatory information

No designation is necessary in accordance with EU directive 67/548/EWG and 1999/45/EC.

16. Other information

The information in items 4-8 and 10-12 does not refer to appropriate use of the, but to the release of larger amounts of by-products due to accidents or irregularities in the handling of the aforementioned material.

For appropriate use of the product, see the specific product and usage information, e.g. Material Data Sheet.