

**HYDE**A.L. HYDE COMPANY  
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MEMBER: SOCIETY OF THE PLASTICS INDUSTRY AND PLASTICS PIONEERS  
ESTABLISHED 1932**MATERIAL SAFETY DATA SHEET****Hydex (PBT) 4101**

**EMERGENCY TELEPHONE:** (856) 227-0500  
**Issue Date:** March 2, 1992  
**Revised Date:** June 9, 2000  
**TRADE NAME:** Ultradur KR 4036 PBT  
**CHEMICAL NAME:** Polybutylene terephthalate  
**PART NAME:** HXNR4101, HXNS4101

**1. Physical Property Data**

**Specific Gravity:** 1.200- 1.650  
**Boiling Point:** N/A  
**Freezing Point:** N/A  
**Decomp. Temp:** 298.0- 400.0  
**Color:** Opaque  
**Odor:** N/A  
**Solubility In Water:** Insoluble  
**Melting Point:** 215 - 230 Deg. C  
**Softening Point:** 428 - 437 Deg. F (ASTM D2117)

**2. Fire and Explosion Data**

**Flash Point:** N/A  
**Autoignition:** 400.0  
**Test Method:** ASTM D 1929  
**Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus and turn out gear.  
**Unusual Hazards:** Explosivity of dusts increases with decreasing particle size; production of fine dusts should be minimized.

**3. Health Effects**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gasses include inhalation and eye and skin contact.  
**Acute Overexposure Effects:** Contact with the molten material can result in thermal burns. Dusts generated from mechanical processing may cause irritation to eyes, skin, or respiratory tract. Processing vapors may cause irritation to skin and mucous membranes of eyes and respiratory tract. ULTRADUR PBT resin in pellet form is not expected to be hazardous. Ingestion of solid pellet may cause gastric disturbances.  
**Chronic Overexposure Effects:** There are no known chronic effects associated with this material.  
**First Aid Procedures - Skin:** Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.  
**First Aid Procedures - Eyes:** Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.  
**First Aid Procedures - Ingestion:** If ingested, dilute with water and induce vomiting. Get immediate medical attention.  
**First Aid Procedures - Inhalation:** If decomposition product vapors or dusts are inhaled, move to fresh air. Aid in breathing, and seek medical attention if necessary.  
**First Aid Procedures - Notes to Physicians:** None known.  
**First Aid Procedures - Aggravated Medical Conditions:** No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.  
**First Aid Procedures - Special Precautions:** None.

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#### 4. Reactivity Data

*Reactivity - Stability Data:* Stable. Rate of decomposition increases at temperatures > 300 C.

*Reactivity - Incompatibility:* Dilute acids, aqueous alkalis.

*Reactivity - Conditions/Hazards to Avoid:* No data available.

*Reactivity - Hazardous Decomposition/Polymerization:* Hazardous decomposition products: co, co2 and tetrahydrofuran.

*Reactivity - Corrosive Properties:* No data available.

*Reactivity - Oxidizer Properites:* No data available.

#### 5. Personal Protection

*Personal Protection - Clothing:* Gloves and apron to prevent contact during mechanical processing and/or under hot melt conditions.

*Personal Protection - Eyes:* Safety glasses or goggles.

*Personal Protection - Respiration:* When processing vapors are not adequately controlled, wear a NIOSH/MSHA approved organic cartridge respirator. If dusts are generated during mechanical processing, wear a NIOSH/MSHA-approved dust respirator as necessary.

*Personal Protection - Ventilation:* Use local exhaust to control dusts or vapors during processing.

*Personal Protection - Explosion Proofing:* None required.

#### 6. Spill Leak/Environmental

*Spill Leak Procedures - General:* Reclaim for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund").

*Spill Leak Procedures - Waste Disposal:* Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

*Spill Leak Procedures - Container Disposal:* Unused material and empty containers must be disposed of in accordance with local, state and federal regulations.

#### 7. Storage and Handling

*Storage and Handling - General:* Keep containers closed.

*This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe this information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.*