

## SUPPLIED BY THE A.L. HYDE COMPANY

## Material Safety Data Sheet

EMERGENCY TELEPHONE: (609) 227-0500

Effective Date: 06/12/90

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**TRADE NAME:** Engineering Thermoplastic Rigid Polyurethane  
**CHEMICAL NAME:** Isoplast 202  
**PART NAME:** HXNR202, HXNS202

**Physical Data**

*Boiling Point:* Not Applicable  
*VAP Press:* Not Applicable  
*VAP Density:* Not Applicable  
*Water Solubility:* Insoluble  
*SP. Gravity:* 1.1-1.2  
*Appearance:* Opaque white to off-white or pigmented pellets  
*Odor:* Odorless

**Fire and Explosion Data**

*Flash Point:* Not Applicable  
*Method Used:* Not Applicable  
*Extinguishing Media:* Water fog, foam, CO<sub>2</sub>, dry chemical  
*Hazards:* Toxic vapors can be emitted under fire conditions. Quantities of dust in air may be combustible.  
*Fire-fighting Equipment:* Use a positive-pressure, self-contained breathing apparatus to prevent exposure to hazardous decomposition products generated under fire conditions.

**Reactivity Data**

*Stability:* (Conditions to Avoid) Avoid excessive heat. Temperatures above 500F (260C) may degrade the resin and release decomposition products.  
*Incompatibility:* (Specific materials to avoid) None known.  
*Hazardous Decomposition Products:* Carbon monoxide, carbon dioxide, aromatic and aliphatic compounds, and traces of hydrogen cyanide at highly elevated temperatures.  
*Hazardous Polymerization:* Not Applicable

**Environmental and Disposal Information**

*Action to Take for Spills:* Sweep up and reuse or dispose. Spilled pellets may present a slipping hazard.  
*Disposal Method:* Incinerate or dispose of in an approved landfill in accordance with all applicable federal, state and local regulations.

**Health Hazard Data**

*Eye:* Solid or dust may cause irritation or corneal injury due to mechanical action. Vapors may irritate eyes.  
*Skin Contact:* Essentially nonirritating to skin. Mechanical injury only. Molten material may burn skin.  
*Skin Absorption:* Skin absorption is unlikely due to physical properties.

**Ingestion:** Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be very low. No hazards anticipated from ingestion incidental to industrial exposure.

**Inhalation:** Dust may cause irritation to upper respiratory tract. At room temperature, exposure to vapors are unlikely due to physical properties, normal processing temperatures may generate vapors which may cause irritation if ventilation is inadequate.

**Systemic & Other Effects:** No specific data; however, repeated exposures to the unheated material are not anticipated to cause any significant adverse effects. Processing fumes may cause eye and respiratory irritation upon repeated exposure. Acrylic rubber modifier is encapsulated in the resin and unavailable for exposure under normal processing conditions.

#### **First Aid**

**Eyes:** Irrigate immediately with water for at least 5 minutes. Mechanical effects only.

**Skin:** Wash off in flowing water or shower.

**Ingestion:** No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

**Inhalation:** Remove to fresh air if effects occur. Consult a physician.

**Notes To Physician:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

#### **Handling Precautions**

**Exposure Guidelines:** None established

**Ventilation:** Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Respiratory Protection:** For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

**Skin Protection:** No precautions other than clean body-covering clothing should be needed.

**Eye Protection:** Safety glasses should be sufficient for most operations; however, for dusty operations wear chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

**Special Precautions to be Taken in Handling and Storage:** Store in sealed containers. Protect from atmospheric moisture. Typically processing temperatures range from 320F-470F (160C-245C). Molten material can produce thermal burns. Avoid skin contact. Fumes released during normal processing may cause irritation. Provide adequate ventilation. Heating the resin above normal processing temperatures may cause hazardous decomposition products. Do not overheat. Handling and fabrication of plastic resins can result in the generation of dust. Dust results from sawing, filing, and sanding of plastic parts in post-molding operations. Quantities of dust in air may be combustible and may cause respiratory irritation.

*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.*