



# POLYMER INDUSTRIES

## MATERIAL SAFETY DATA SHEET

### Section 1: Product and Company Identification

Product: Densetec Homopolymer Polypropylene Sheet

Company: Polymer Industries  
PO Box 32; Hwy 40  
Henagar, AL 35978

### Section 2: Composition / Information on Ingredients

Principal Components:

|                   |                  |           |
|-------------------|------------------|-----------|
| Polypropylene:    | CAS #: 25085534: | 98 - 100% |
| Additives (Color) |                  | 0 – 2%    |

### Section 3: Hazards Identification

Product is generally recognized as a low potential industrial hazard. Inhalation of vapors from thermal processing may cause irritation to the upper respiratory tract. Symptoms may include burning sensation, coughing and sore throat.

Molten resin may cause sever thermal burns to the eyes and skin. Symptoms may include redness, pain, blistering, and swelling of the affected areas.

No chronic health effects have been observed with normal product use.

Dust caused by cutting or machining of material may produce mechanical irritation to mucous membranes of the eyes, nose, throat and upper respiratory tract. Material dust may scratch the surface of the eye.

### Section 4: First Aid Measures

Eyes: Flush eyes with running water immediately if dust particles get into the eyes. Get medical attention if irritation persists.

Skin: Use soap and water to remove material from skin. If molten material gets on skin, quickly cool in water. See doctor for extensive burns. Do not try to peel solidified material from skin. Vegetable oil, mineral oil, or petroleum jelly may be used to aid in removal from skin.

Ingestion: If swallowed, do not induce vomiting. Give person a glass of water and get immediate medical attention.

Inhalation: Non Hazardous at ambient and molten temperatures. Remove to fresh air if breathing is affected. Seek medical attention.

#### Section 5: Fire Fighting Measures

Fire Classification: OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Material will burn although it is not easily ignited. Water, foam, dry chemical, or carbon dioxide can be used to extinguish flames. For large fires, do not enter any enclosed or confined fire space without proper protective equipment.

If product combusts, carbon monoxide, carbon dioxide, and other organic compounds can be produced.

#### Section 6: Accidental Release Measures

Material is in sheet form and is not subject to spills. This section is not applicable.

#### Section 7: Handling and Storage

Material should be stored away from sparks or heat sources such as open flames, heaters, ovens to prevent material from combusting.

#### Section 8: Exposure Controls / Personal Protection

Material may be handled without protective clothing. Gloves or other types of protective clothing should be used if handling material at elevated temperatures.

If machining of material results in dust, ventilate area. Good ventilation should also be present when material is heated for welding or forming applications. Safety glasses should always be worn when machining material.

Respiratory protection is not normally required.

## Section 9: Physical and Chemical Properties

Appearance: Solid Plastic

Odor: None

Solubility: Not Soluble in water

Melting Point: 160 to 170 deg C (Softening)

Density: .90 g/cm<sup>3</sup> to .91 g/cm<sup>3</sup>

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None Known

Incompatibility with other Materials: Potassium permanganate, liquid chlorine, fuming nitric acid and other strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, organic oxidation products, acrid smoke and vapors.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None

## Section 11: Toxicological Information

This material is not expected to be irritating to the eyes or skin.

Polypropylene has been tested in laboratory rates by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. No epidemiological studies or case reports suggest any serious chronic health hazards from long-term exposure to polypropylene decomposition products below the irritation level (IARC, 19, 218).

## Section 12: Ecological Information

Material is not readily biodegradable. Material is not expected to be harmful to aquatic organisms.

### Section 13: Disposal Considerations

This material can be easily recycled. Material can be disposed of normally in landfills. Please comply with all local and state laws for proper disposal.

### Section 14: Transport Information

This material is not regulated as a hazardous material or dangerous goods for transportation.

### Section 15: Regulatory Information

US Federal Regulations: Toxic Substances Control Act (TSCA) Inventory – Yes

State Regulations: N/A

International Regulations: European Inventory (EINECS) – Unknown  
Australia (AICS)  
China  
Japan (ENCS)  
Korea – Existed and Evaluated  
Philippines Inventory (PICCS)  
Canadian Inventory (DSL) - Yes

SARA 311/312 Categories:

- |                                       |    |
|---------------------------------------|----|
| 1) Immediate (Acute) Health Effects:  | No |
| 2) Delayed (Chronic) Health Effects:  | No |
| 3) Fire Hazard:                       | No |
| 4) Sudden Release of Pressure Hazard: | No |
| 5) Reactivity Hazard:                 | No |

### Section 16: Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

HMIS Codes: Health: 0 Flammability: 1 Reactivity: 0

Information contained herein is accurate to the best of our knowledge. Polymer Industries makes no warranty of any kind, express or implied, concerning the safe use of this material.