



Safety Data Sheet

12/20/2023

Section 1: Identification

Product: Densetec Homo-polymer Polypropylene

Type of use: Building materials, fabricated parts

Restrictions on use: Do not use this material in any medical applications involving permanent implantation in the human body or permanent contact with internal body fluids

Company Business / Emergency contact

Polymer Industries

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Emergency Telephone Number: 256-657-5197

Section 2: Hazard (s) Identification

This material is not considered hazardous according to GHS

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 3: Composition / Information on Ingredients

Principal Components: Homo-polymer Polypropylene (CAS #: 9003-7-0), Additives

Additives may include Color Pigments, UV Stabilizers, antioxidants and slip agents which can be formulated in polypropylene generally at concentration levels of less than 1% by weight.

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.

Dust particles can cause an explosive reaction due to static buildup or the presence of flammable vapors

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 in sheet form and is not subject to spills.

Personal precautions Sweep up to prevent a slipping hazard avoid breathing dust, avoid dust formation.

Environmental precautions: Do not contaminate surface water do not flush down drains

Method of cleanup: Clean up by using brooms or vacuum dust accumulation should not be blown around using compressed air as this could cause a static charge resulting in an explosion

Section 7: Handling and Storage

Sheet should be secured to prevent slippage during transport, material should be stored away from sparks or heat sources such as open flames, heaters, ovens to prevent material from combusting. All debris should be contained in properly designed systems to avoid spillage.

Section 8: Exposure Controls / Personal Protection

OSHA permissible exposure limits (OSHA PEL)

Debris and dust from processing sheet can be considered nuisance particulates.

OSHA PEL (Total dust) 15 mg/m³ TWA
ACGIH (Inhalable particulate) 10 mg/m³ TWA
OSHA PEL (Respirable Fraction) 5 mg/m³ TWA
ACGIH (Respirable particulate) 3mg/m³ TWA

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 use engineered dust collection systems and ventilate the area. Good ventilation should also be present when material is heated for welding or forming applications.

Personal protective equipment such as safety glasses with side shields or a face shield, steel toed boots, hearing protection should be worn when machining material. Heat resistant gloves and body protection should be used when the sheet is heated for bending or welding if engineered controls are not adequate.

Respiratory protection is not normally required.

Section 9: Physical and Chemical Properties

Appearance: Solid Plastic

Odor: Mild to no odor

Color: Clear to Opaque (Colors)

Thermal decomposition: Low molecular weight hydrocarbons, alcohol, aldehydes, acids and ketones can be formed during thermal processing

Melting Point: 165 deg C, 330 deg F

Density: .90 g/cm³ to .91 g/cm³

Auto-ignition: >300C

Flashpoint: 340 deg C, 644 deg F

Section 10: Stability and Reactivity

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Reactivity: Not reactive with water or air.

Hazardous Reactions: Dust may create static discharge, risk of dust-air explosion increase with the presents of flammable vapors. Polypropylene may react and be degraded by Organic Chlorides, Hydrocarbons and certain halogens.

Conditions to avoid: Processing polypropylene at over 300 °C may emit various oligomers, waxes and oxygenated hydrocarbons as well as carbon dioxide, Carbon oxide and small amounts of other organic vapors (Inhalation of these gases may be hazardous

Section 11: Toxicological Information

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

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

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 15.1: State Regulations

California Proposition 65



Warning, some chemicals potentially contained in the listed products at trace amounts are known to the state of California as a Cancer, carcinogen or reproductive toxin. This product may contain the following two chemical substances as impurities found in the manufacturing process and used in the manufacture of this product.

Carbon Black (CAS # 1333-86-4)
TiO₂ (CAS # 13463-67-6)
Nickel (CAS # 8007-18-8)
Silica Quartz (CAS # 14808-60-7)
Zinc Ferrite (CAS # 68187-51-9)

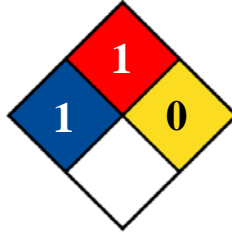
Based on a worst-case mass balance calculation, these substances are expected to be found at levels lower than 10 ppb
This product may also contain trace levels of phthalates in amounts generally less than 10 ppm

Each person doing business in California is responsible for determining the status of its own products under proposition 65 and developing his or hers own regulatory plan. Polymer Industries make no representation or warranty in that regard.

Section 16: Other Information

NFPA Rating:

Health Hazard	1
Fire Hazard	1
Reactivity Hazard	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.