



AMERICAN PLASTICS

800-772-7401

Material Safety Data Sheet

SUPPLIER NAME: AMERICAN PLASTICS (800)772-7401
525 113th Sreet Arlington, TX 76011

COMMERICAL PRODUCT NAME: HIGH DENSITY POLYETHYLENE
Typical Uses: Sheet for Thermoforming

CHEMICAL CONSTITUTION OF PRODUCT: Petrothene (TM), HD 5003C. CH₃ - (CH₂)_n - CH₃. Chemical Family: Polyolefin. Polyethylene - 100%.

PHYSICAL PROPERTIES:

Boiling Point: N/A
Vapor Density (Air=1): N/A
Vapor Pressure: N/A
Solubility in Water: Insoluble
Melting Point: Crystalline, 257-284° F (125-140° C), (ASTM D 2117)
Specific Gravity: 0.941 to 0.980 g/cc, (ASTM D 792)
Form: White to Opaque Solid Pellets
Appearance: Sheets
Color: White (Natural)
Odor: No appreciable odor

STORAGE AND HANDLING:

Precautions During Storage and Handling: Fabrication may cause nuisance dust to be formed and necessary precautions for personal protection should be used as noted below.

Hazardous Combustion and Decomposition Products: Thermal decomposition products may include C, CO, CO₂, H₂O, acrolein, formaldehyde and other organic vapors. General stable material and hazardous polymerization is not likely. May burn or react violently with fluorine/oxygen mixtures with 50 to 100% fluorine. May be decomposed by strong oxidizing agents such as nitric and sulfuric acids, halogens and chlorinating agents.

Disposal Procedures: All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and inconformance with good engineering practices. Reclaim where possible.

Individual Preventive Measures: Control Measures: Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria. PEL/TWA (OSHA Permissible Exposure Limit/Time-Weighted Average): For nuisance dust. 15 mg/m³ for total dust and 5 mg/m³ for respirable dust. TLLV/TWA (ACGIH Threshold Limit Val-



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High Density Polyethylene MSDS (Cont'd)

Individual Preventive Measures (Continued):

Respiratory Protection: Recommended exposure limits have not been established for this material. Whether there is a need for respiratory protection under your conditions of handling this material should be evaluated by a qualified health specialist. Nuisance dust can be caused by some operations. Fumes may be generated in operations using heated polyethylene.
Protective Clothing: Wear heat protective gloves and clothing if there is potential for contact with heated material.
Eye Protection: Wear safety glasses.
Particulates and fines may cause mechanical irritation to the eyes.

IGNITION AND EXPLOSION:

Flash Point:

N/A

Auto-Ignition Temperature:

Approximately 645° F (ASTM D 1929)

Flammable Limits in Air, % by Volume:

N/A

Special Fire, Explosion Hazard:

Wear self-contained breathing apparatus in the positive pressure mode with a full face-piece when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. The application of high velocity water will spread the burning surface layer.

Extinguishing Media:

Water spray, dry chemical, foam or carbon dioxide. If possible, water should be applied as a spray from a fogging nozzle since polyethylene is a surface burning material.

Special Fire Fighting Instructions:

Individuals should perform only those fire fighting procedures for which they have been trained.

NFPA Rating:

None

FIRST AID PROCEDURES:

Inhalation: Remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth-to-mouth.

Skin contact: If contacted by molten polymer, immediately flush area with large amounts of cold water. Do not attempt to remove from skin.

Eye Contact: Immediately flush with plenty of cool water for at least 15 minutes. Do not permit victim to rub eyes.

Ingestion: Call a physician or Poison Control Center promptly.

ENVIRONMENT PROTECTION:

To be disposed of in accordance with the appropriate legislation.

SPECIFIC DATA:

Transport: not regulated.