

Product Name: **UHMW-PE**

Synonyms: **Polyethylene Ethene Homopolymer**

UHMW

Composition / Information on Ingredients

Ingredient: Base Resin

While this product is not classified as hazardous under OSHA Regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and made available for employees and other users of the product.

This product is not regulated by WHMIS

Physical and Chemical Properties

Vapor Pressure: N/A
Vapor Density: N/A
Solubility in water: < 0.00 l Wt %
Specific Gravity: 0.925-0.940 @25°C
Physical State: Solid
Appearance and Odor: White powder, slight to no odor

Fire and Explosion Hazards

Flashpoint: Not applicable.

Hazardous Products of Combustion: Carbon monoxide and carbon dioxide.

Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical.

Firefighting Instructions: Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Keep personnel removed from and upwind of fire. Water should be used to keep fire-exposed containers cool. Water, foam and dry chemical may cause damage to electrical equipment.

Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Flame; avoid prolonged heating at processing temperatures. Thermal decomposition occurs at 330°C (626°F). Fine powder may present a dust explosion hazard. Appropriate measures should be taken to control the generation of and accumulation of dust during conveying and processing operations. Electrical grounding of equipment and the minimization of ignition sources is required when handling powder to avoid possible dust explosion.

Incompatibility: Halogens, strong oxidizers and aromatic solvents.

Hazardous Decomposition Products: Aliphatic hydrocarbons.

Hazardous Polymerization: Will not occur.

Health Hazard Identification

Emergency Overview:

Fine white powder with slight to no odor. Fine powder may present a dust explosion hazard. Combustion and decomposition may produce hazardous fumes. Hot or molten material can cause thermal burns on contact with skin or eyes. Spilled powder may create a slipping hazard.

Potential Health Effects:

Routes of exposure: Skin and eye contact, inhalation of dust and inhalation of vapors, if overheated.

Signs and Symptoms of Exposure: This specific product has not been tested.

