



REVISED: January 26, 2012

MATERIAL SAFETY DATA SHEET

1900* UHMW Polymer

For all types and grades of 1900 UHMW

AS WE INTERPRET THE HAZARDOUS PRODUCTS ACT, THESE PRODUCTS SHOULD NOT BE CONSIDERED HAZARDOUS MATERIALS.

I. PRODUCT IDENTIFICATION:

Chemical name: Polyethylene
Chemical family: Linear high density polyethylene
extrusion, C.A.S. #: 9002-88-4
Compression molding
Chemical formula: $(-\text{CH}_2-\text{CH}_2)_n$

Molecular weight: >3,000,000
Material use: Ram

II. HAZARDOUS INGREDIENTS: None

III. PHYSICAL DATA:

Physical state: Solid
Odour: Slight waxy odour
Appearance: White powdery solid
Specific gravity: 0.935 - 0.945
Vapour pressure: N/A
Vapour density: N/A

Evaporation rate: N/A
% volatile (by volume): <0.4
Melting point: 260°C
Boiling point: N/A
Solubility in water: Negligible

IV. FIRE AND EXPLOSION HAZARD:

Flash point: 352°C (Setchkin test, ASTM-D 1929, method B)
Autoignition temperature: 363°C (Setchkin test, ASTM-D 1929)
Hazardous combustion products: Carbon monoxide, carbon dioxide
Upper flammable limit in air: N/A
Lower flammable limit in air: N/A
Extinguishing media: Water, foam, carbon dioxide or dry chemical
Special fire-fighting procedures: Standard procedures for Class A fires
Explosion hazards: Presents a dust explosion hazard when dust is finely divided and suspended in air

V. REACTIVITY DATA:

Chemical stability - conditions to avoid: None known

Incompatibility - materials to avoid: None known

Hazardous decomposition products: Carbon monoxide, carbon dioxide

Hazardous polymerization: Will not occur

VI. TOXICOLOGICAL DATA

Eye contact: Irritation hazard of eyes by mechanical action of particulates or dust

Skin contact: Lesion by mechanical action only

Inhalation: The dust may produce irritation of upper respiratory tracts

Note: These materials are not expected to cause physiologic impairment at low concentration. HIMONT suggests that these materials be treated as nuisance dust or particulate in accordance with the recommendations of ACGIH (American Conference of Governmental Industrial Hygienists)

VII. PREVENTIVE MEASURES

Respiratory protection: Nuisance dust respirator approved by NIOSH/MESA

Eye protection: Safety glasses

Ventilation: Local exhaust for process equipment if processing over 232°C

Steps to be taken if material is released or spilled: If material is not contaminated, scoop into a clean container for use. If contaminated, scoop into a container for disposal.

Waste disposal: Sanitary landfill or incineration site. Disposal must be done in accordance with local, provincial and federal regulations.

Storage requirements: Store in a sprinkled warehouse. Keep temperatures below 60°C for quality control.

Special shipping information: No placard is required for shipping.

VIII. FIRST AID MEASURES: None

N/A = Not Applicable

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