

## MATERIAL SAFETY DATA SHEET

**1900\* UHMW Polymer**  
**For all types and grades of 1900 UHMW**

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

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### I. PRODUCT IDENTIFICATION:

<b>Chemical name:</b> Polyethylene	<b>Molecular weight:</b> >3,000,000
<b>Chemical family:</b> Linear high density polyethylene	<b>Material use:</b> Ram extrusion, Compression molding
<b>C.A.S. #:</b> 9002-88-4	
<b>Chemical formula:</b> $(-\text{CH}_2-\text{CH}_2)_n$	

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### II. HAZARDOUS INGREDIENTS: None

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### III. PHYSICAL DATA:

<b>Physical state:</b> Solid	<b>Evaporation rate:</b> N/A
<b>Odour:</b> Slight waxy odour	<b>% volatile (by volume):</b> <0.4
<b>Appearance:</b> White powdery solid	<b>Melting point:</b> 260°C
<b>Specific gravity:</b> 0.935 - 0.945	<b>Boiling point:</b> N/A
<b>Vapour pressure:</b> N/A	<b>Solubility in water:</b> Negligible
<b>Vapour density:</b> N/A	

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### 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

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## 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

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## 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)

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## 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.

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## **VIII. FIRST AID MEASURES: None**

N/A = Not Applicable

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Because we cannot anticipate or control different conditions under which this information and our products may be used, we do not guaranteed the applicability of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the safety and suitability of each product for their particular purposes. Our products are sold with our warranty, either express or implied, and buyer assumes responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. Also, statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent.