



**Expect Service**

**Radiation Products Design Inc**

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## SAFETY DATA SHEET

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### RPD INFORMATION

<b>Address</b>	5218 Barthel Industrial Drive Albertville, MN 55301
<b>Website</b>	<a href="http://www.rpdinc.com">www.rpdinc.com</a>
<b>Email</b>	<a href="mailto:sales@rpddinc.com">sales@rpddinc.com</a>
<b>Phone</b>	763-497-2071 or 800-497-2071
<b>Fax</b>	763-497-2295

### RAW MATERIAL INFORMATION

**Ultra-Hight Molecular Weight Polyethylene (UHMW)**

**REDCO™ UHMW POLYETHYLENE**

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**MSDS  
MATERIAL SAFETY DATA SHEET  
FOR VIRGIN NATURAL AND REPRO BLACK PRODUCTS**

**I. PRODUCT IDENTIFICATION****PRODUCT NAME:** Ultra-High Molecular Weight Polyethylene**MANUFACTURER:** Poly Hi Solidur Inc.**PHONE NUMBERS:****PRODUCT INFORMATION:** (260) 479-4274**CHEMTREC:** 1-800-424-9300**II. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Polyethylene	9002-88-4	> 99%

**III. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE:** Waxy Solid with waxy odor. White, Black or green color.**ODOR:** odorless**PERCENT VOLATILES:** N/A**MELTING POINT:** N/A**SOLUBILITY IN WATER:** Negligible**SPECIFIC GRAVITY:** 0.93 - 0.94**IV. STABILITY AND REACTIVITY****STABILITY:** Stable**CONDITIONS TO AVOID:** None Known**MATERIALS TO AVOID:** Strong oxidizing agents**V. EXPOSURE CONTROLS/PERSONAL PROTECTION****VENTILATION:** Local ventilation in dusty conditions, or if thermal decomposition occurs**PROTECTIVE EQUIPMENT****SKIN:** Gloves and protective garments when handling molten material.

**V. EXPOSURE CONTROLS/PERSONAL PROTECTION - continued**

**EYE:** Glasses with side shields

**RESPIRATOR:** NIOSH approved dust respirator recommended. If material is being burned wear an organic respirator

**EXPOSURE GUIDELINES:**

Grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standards

INGREDIENT	VALUE
Polyethylene	10 mg/m <sup>3</sup> (total dust)

**VI. HEALTH HAZARDS IDENTIFICATION****ACUTE OR IMMEDIATE EFFECTS**

**SKIN:** Molten material may cause thermal burns.

**EYES:** Contact with powder or dust may cause mechanical irritation

**INHALATION:** Not considered an inhalation hazard

**INGESTION:** Not a probable route of exposure

**LONG TERM DELAYED EFFECTS:** None known

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

None known, however, seek medical attention if constant irritation occurs. If thermal decomposition occurs, upper respiratory, eye, nose, and throat irritation may result.

**CHRONIC/CARCINOGENICITY:**

Not a known Carcinogen under IARC

**VII. FIRST AID MEASURES**

**SKIN:** If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention.

**EYES:** In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician if symptoms persist.

**INHALATION:** Consult a physician if upper respiratory or throat irritation persists

**VIII. TOXICOLOGICAL INFORMATION**

**CHRONIC TOXICITY:** Harmless

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:**

No information available

**IX. FIRE FIGHTING MEASURES**

**AUTOIGNITION TEMPERATURE:** >350 °C (662 °F)

**EXTINGUISHING MEDIA:** Water, Foam, Carbon Dioxide and Dry Chemical

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon Monoxide, Carbon Dioxide, selected Alkanes and Aldehydes including Acrolein and Formaldehyde

**SPECIAL FIRE FIGHTING INSTRUCTIONS/PRECAUTIONS:**

Fire fighters should wear full protective clothing including self-contained, breathing apparatus. Dust is flammable when finely divided (less than 200 mesh) and suspended in air.

**X. ACCIDENTAL RELEASE MEASURES**

**SPILL OR RELEASE:** Sweep up for Disposal or reuse

**XI. HANDLING AND STORAGE**

**STORAGE:** Store in a sprinkler protected warehouse

**XII. DISPOSAL CONSIDERATIONS**

**DISPOSAL:** Incineration or landfill – dispose of in accordance with Federal, State, Provincial and Local regulations.

**XIII. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

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