Safety Data Sheet (SDS)
SDS-2095-Polyethylene

SECTION 1: PRODUCT AND COMPANY INFORMATION

Material Difference Technologies LLC, 1401 Manatee Ave W, Suite 1015, Bradenton, Fl 34205 (888) 818-1283

Product Family: Polymer
Trade Names: High Density Polyethylene
Recommended Uses: Polymer preparations and compounds.

Emergency Phone Number
for Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 / +1 703-527-3887 CCN702922

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW			
GHS CLASSIFICATION	Non-hazardous	**HMIS**	
Physical State	Solid	**HEALTH**	**1**
Color	White / Off-white	**FLAMMABILTY**	**1**
Odor	Odorless or slight odor	**PHYSICAL HAZARD**	**0**
		PERSONAL PROTECTION	**See Section 8**

Primary Routes of Exposure Eyes or skin contact
Potential Health Effects
Acute Effects
Inhalation Health injuries not expected. Not a probable route of exposure under ordinary conditions.
Skin contact Health injuries not expected. Possible mechanical irritation.
Eye contact Health injuries not expected. Possible mechanical irritation from dust or powder.
Ingestion Health injuries not expected. Not a probable route of exposure.
Chronic effects Ongoing exposure may aggravate acute effects
Carcinogenicity See Section 11
Medical conditions aggravated by long term exposure Ongoing exposure may aggravate acute effects .

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component:	CAS Number:	Percentage:
Polyethylene (Polyethylene polymer)	CAS# 25213-02-9	100 (+/-)

SECTION 4: FIRST AID MEASURES

Skin Contact: After contact with product or dust: Wash skin with soap and water. Get medical attention if irritation develops and persists. After contact with molten product, cool skin area rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.
Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Inhalation: Move victim to fresh air. Medical aid is necessary if symptoms appear to be an obvious consequence of inhalation.
Ingestion: Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

SECTION 5: FIRE FIGHTING MEASURES

Use water fog, dry chemical, carbon dioxide or foam as appropriate for materials in surrounding fire. Avoid using direct streams of water on molten burning material as it may scatter and spread the fire. Melts in proximity to fires resulting in slippery floors and stairs. Static charges or on powders or powders in liquids may ignite combustible atmospheres. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. See NFPA Bulletin 654, “Standard for the Prevention of Fire and Dust Explosions from the Manufacturing Processing, and Handling of Combustible Particulate Solids,” for safe handling procedures. As in any fire, wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing. Watch footing on floors and stairs because of possible spreading of molten material.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to Section 8: Exposure Control and Personal Protection

Emergency Action:

No special environmental precautions required.

Spill/Leak Procedure:

Containment of this material should not be necessary. Sweep up or gather material and place in appropriate container for disposal.

SECTION 7: HANDLING AND STORAGE

Refer to Section 8: Exposure Control and Personal Protection

Handling: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654).

Storage: Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep container closed when not in use. Keep in an area equipped with sprinklers.

Incompatibilities: Fluorine, strong acids, strong oxidizing agents, chlorinated solvents and aromatic compounds.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Controls:

Use recommended safe handling practices to minimize unnecessary exposure. General room ventilation is adequate for storage and ordinary handling. Use local exhaust at points of fume generation or if dusty conditions prevail.

Personal Protective Equipment:

Wear safety glasses with side shields or chemical goggles to prevent eye contact. Have eye-washing facilities readily available where eye contact can occur. Do not wear contact lenses when working with this substance. Wear impervious gloves and protective clothing to prevent skin contact. Use NIOSH or MSHA approved equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not determined	**Vapor Density (Air = 1):**	Not applicable
Specific Gravity (@ 23°C):	0.940 - 0.970	**Appearance:**	Pellets
Melting Point:	212 – 338 °F	**Odor:**	Odorless or slight odor
Evaporation Rate:	Not applicable	**pH:**	Not applicable
Vapor Pressure:	Neglible	**Auto Ignition Temperature:**	350 °C
Odor Threshold:	Not determined	**Viscosity (SUS @ 100°F):**	Not applicable
Solubility in water:	Insoluble in water	**Flash Point (Closed Cup):**	Not applicable
Decomposition Temperature:	Not determined	**Lower:** Not applicable	**Upper:** Not applicable

Ventilation: Flammability Limits in Air (% by Volume)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of storage and use.

Chemical Stability: Stable under normal conditions of storage and use. Avoid exposure to open flame or exceeding recommended processing conditions.

Stability/Incompatibility: Avoid contact with strong oxidizers, strong acids or flammable materials.

Conditions to Avoid: Avoid dust-air mixtures or static charge buildup. Avoid contact with incompatible materials such as oxidizing agents or amines.

Hazardous Reactions/Decomposition Products:

Decomposition products depend on temperature, exposure to air, and the presence of other substances. Processing may release irritating fumes, olefinic and paraffinic compounds, carbon monoxide, and carbon dioxide. Potential thermal decomposition products include trace aldehydes (including formaldehyde), alcohols, organic acids, and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes and skin contact.
Acute Effects:	This product is not acutely toxic. Oral Toxicity LD50 Not Available; Inhalation Toxicity LD50 Not Available.
Chronic Effects:	None known.
Symptoms:	Irritation of eyes and skin.
Carcinogenicity:	This product has not been found to be carcinogenic by the NTP, ACGIH, IARC or OSHA.
Further information	This product has no known adverse effect on human health.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No known or expected ecotoxicity
Persistence and Biodegradability:	Not determined.
Bioaccumulative Potential:	Not determined.
Mobility in Soil:	Not determined

SECTION 13: DISPOSAL CONSIDERATION

Dispose of this product in compliance with all applicable federal, state and local regulations. The unused product is not specifically listed by EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP).

SECTION 14: TRANSPORT INFORMATION

Refer to Section 6: Accidental Release Measures

D.O.T. 49 CFR 172.101:	Not regulated
TDG:	Not regulated
UN Proper Shipping Name/Number:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

SECTION 15: REGULATORY INFORMATION

SARA TITLE III Information:
Hazard categories for the Superfund Amendments and Reauthorization Act (SARA) Section 311/312/313 (40 CFR 370):

Immediate Hazard: No **Delayed Hazard:** No **Fire Hazard:** No **Pressure Hazard:** No **Reactivity Hazard:** No

SECTION 16: OTHER INFORMATION

Notice: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet; however, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In additional, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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