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**FOR CHEMICAL EMERGENCY
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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #577, Polyethylene Bagging Film

CHEMICAL NAME: Polyethylene Homopolymer

CAS NUMBERS: 9002-88-4

SYNONYMS: Polyethylene, Polyethylene Homopolymer, PE

CHEMICAL FAMILY: Polyethylene Homopolymer

TYPE OF USE: Adhesives.

SECTION 2 - COMPOSITION

<u>Component Name</u>	<u>CAS#</u>	<u>EU Inventory</u>	<u>Concentration by Wt%*</u>		<u>Risk</u>	<u>Symbol</u>
Polyethylene, Homopolymer	9002-88-4	Monomers are EINECS listed	98.0	<= 100.0	None	None
Propriety Additives	Mixture	Additives are EINECS listed		<=2.0	None	None

*Concentration of gaseous products or materials is given in Mole %

Compositions given are typical values not specifications.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW – This material is NOT HAZARDOUS by OSHA Hazard Communication definition. Trade secret chemical identities will be revealed to treating physicians in an emergency, or to purchasers after execution of a secrecy agreement.

Signal Word: CAUTION!

HAZARDS: Dust may form explosive mixtures with air. At process temperatures irritating fumes may be produced. Molten polymer may cause thermal burns.

PHYSICAL STATE: Solid

COLOR: Translucent to white.

ODOR: Faint, mild hydrocarbon odor.

ODOR THRESHOLD: No value available.

POTENTIAL HEALTH EFFECTS

SIGNS AND SYMPTOMS OF ACUTE EXPOSURE: See component summary.

- *Polyethylene, homopolymer 9002-88-4* – Hot material may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat; coughing may result. Mechanical irritation is possible.

SKIN: Molten polymer may cause thermal burns.

INHALATION: Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. "Nuisance dust" such as polymer dust typically exhibit no significant health effect when they are reasonably controlled. Exposure to high concentration of dust may cause slight irritation by mechanical action.

EYE: Mechanical irritation is possible.

INGESTION: Ingestion not a likely route of exposure.

CHRONIC HEALTH EFFECT: See component summary.

- *Polyethylene, homopolymer 9002-88-4* - No known chronic health effects.

CONDITIONS AGGRAVATED BY EXPOSURE: No known conditions are aggravated by this material.

SECTION 4 - FIRST AID MEASURES

General

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 3 of this MSDS.

SKIN: If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain immediate emergency medical attention if burn is deep or extensive.

INHALATION: If symptoms are experienced, move victim to fresh air. Obtain medical attention if breathing difficulty persists.

EYE: Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

INGESTION: Adverse health effects due to ingestion are not anticipated.

Note to Physician: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Treat burns or allergic reactions conventionally after decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

CLASSIFICATION: Not classified. Polymer will burn but does not easily ignite.

FLASH POINT: Not applicable

AUTO-IGNITION TEMPERATURE: 343°C (649.4 °F)

UPPER FLAMMABLE LIMIT: N/A

LOWER FLAMMABLE LIMIT: N/A

EXTINGUISHING MEDIA

Suitable: SMALL FIRE: Use Dry chemicals, CO₂, water spray
LARGE FIRES – Use large quantities of water spray

PROTECTION OF FIREFIGHTERS

PROTECTIVE EQUIPMENT/CLOTHING: Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

FIRE FIGHTING GUIDANCE: Polyolefin dust particles in the atmosphere are combustible and may be explosive. Keep away from heat, sparks, open flame, or any ignition source.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, olefinic and paraffinic compounds, traces amounts of organic acids, ketones, aldehydes and alcohols may be formed.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

RELEASE RESPONSE: Equip responders with proper protection. There could be potential dust explosion hazard. Avoid generating dust. Product creates dangerous slipping hazard on any hard smooth surface. With clean shovel place material into clean, dry container and cover loosely, move containers from spill area. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks, open flame or any ignition source. Use with adequate ventilation. Material can make walking hazardous, potentially causing falls and serious injury. After handling, always wash hands thoroughly with soap and water.

STORAGE: Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilate area to prevent accumulation of dust and fumes.

PERSONAL PROTECTION:

Inhalation: A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use process enclosures, local exhaust ventilation, or other engineering

controls to keep airborne levels below recommended exposure limits. Use appropriate respiratory protection where atmosphere exceeds recommended limits.

Skin: Use chemical resistant gloves appropriate to conditions of use. Wear heat protective gloves and clothing if there is a potential for contact with heated material. Protective clothing such as long sleeves or a lab coat should be worn.

Eye: Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling product.

ADDITIONAL REMARKS: Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the tasks(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Material spilled on hard surface can be a serious slipping/falling hazard. Use care in walking on spilled material.

OCCUPATIONAL EXPOSURE LIMITS:

Component Name	Source/Date	Value	Type	Notation
Polyethylene, Homopolymer	US (ACGIH)/2003	10 mg/m3 (Inhalable Fraction)	8 HRS/TWA	No
	US (ACGIH)/2003	3 mg/m3 (Respirable Fraction)	8 HRS/TWA	No
	US (OSHA)/2003	5mg/m3 (Respirable fraction)	8 HRS/TWA	No
	US (OSHA)/2003	15mg/m3 (Total Dust)	8 HRS/ TWA	No
Proprietary Additives	US (ACGIH)/2002	N/L		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid Translucent to white

ODOR: Faint, mild hydrocarbon odor

ODOR THRESHOLD: No value available

pH: Not applicable

BOILING POINT/BOILING RANGE: Not applicable

FREEZING POINT/MELTING POINT: 104 - 138°C (219.2 – 280.4°F)

FLASH POINT: Not applicable

AUTO-IGNITION: 343°C (649.4°F)

FLAMMABILITY: Not Classified. Polymer will burn but does not easily ignite.

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

EXPLOSIVE PROPERTIES: No Data Available

OXIDIZING PROPERTIES: No Data Available

VAPOR PRESSURE: Not applicable

EVAPORATION RATE: Not applicable

RELATIVE DENSITY: ~0.91 – 0.98

RELATIVE VAPOR DENSITY: Not applicable

VISCOSITY: Not applicable

SOLUBILITY (WATER): Insoluble

PARTITION COEFFICIENT (KOW): Specific data not available

ADDITIONAL PHYSICAL AND CHEMICAL PROPERTIES: No additional information available.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: The product is stable

CONDITIONS TO AVOID: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

SUBSTANCES TO AVOID: Material may be softened by some hydrocarbons. Product reacts with fluorine gas.

DECOMPOSITION PRODUCTS: Not expected to decompose under normal conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

REACTIONS WITH AIR AND WATER: Does not react with air, water or other common materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCTION INFORMATION

PRODUCT SUMMARY: (See Component Toxicity Information).

COMPONENT INFORMATION

- *Polyethylene, Homopolymer 9002-88-4*

ACUTE TOXICITY - EFFECTS:

Inhalation: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs.

Ingestion - No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.

REPEATED DOSE TOXICITY: Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.

CARCINOGENICITY: Not listed by IARC, NTP, OR OSHA.

- *Proprietary Additives*

REPEATED DOSE TOXICITY: No known chronic health effects.

CARCINOGENICITY: Not listed by IARC, NTP, OR OSHA.

Section 12 – ECOLOGICAL INFORMATION

PRODUCT INFORMATION

ECOTOXICITY: See component summary.

ENVIRONMENTAL FATE AND PATHWAY: See component summary.

- *Polyethylene, Homopolymer 9002-88-4*

ECOTOXICITY: Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

ENVIRONMENTAL FATE AND PATHWAY: This material is not volatile and insoluble in water.

Persistence and Degradability

Biodegradation: This material is not expected to be readily biodegradable.

Bioaccumulation: This material is not expected to bioaccumulate.

- *Proprietary Additives*

ECOTOXICITY: No data Available.

ENVIRONMENTAL FATE AND PATHWAY: No Data Available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Use only licensed transporters and permitted facilities for waste disposal. Comply with federal, state, or local regulations for disposal. Recycle if possible.

SECTION 14 - TRANSPORT INFORMATION

Special Requirements: If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in the composition section of this sheet, based on final composition of your product.

PROPER SHIPPING NAME: POLYETHYLENE, OTHER THAN LIQUID

SECTION 15 - REGULATORY INFORMATION

REGULATORY STATUS

COUNTRY	INVENTORY		
Australia	AICS	X	X = All components are included or are otherwise exempt from inclusion on this inventory.
Canada	DSL	X	
Canada	NDSL		
China	IECS	X	
European Union	EINECS	X	
European Union	ELINCS		
European Union	NLP		
Japan	ENCS	X	
Korea	ECL	X	
Philippines	PICCS	X	
United States	TSCA	X	

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304: No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

SARA 311/312: Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

Sara 313: This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Component

Reporting Threshold

State Reporting: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

SECTION 16 - COMMENTS

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with Fibre Glast Developments Corporation or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.