

Material Safety Data Sheet

Debris Netting



Section 1: Chemical Product and Company Identification

Product: InnoPlus HDPE (All grades except HDPE compound)
Chemical Name and Synonyms: High Density Polyethylene
CAS NO.: 9002-88-4
Formula: $(-CH_2-CH_2-)_n$
Company Identification/Supplier: -PTT Chemical Public Company Limited
14 I-1 Road, Tambon Map Ta Phut, Amphoe
Mueang Rayong 21150, Thailand
-Bangkok Polyethylene Publick Compnay Limited
Maptaphut Industrial Estate 4-I 10 Rd.,
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Section 2: Composition/ Information on Ingredients

COMPONENT	CAS NO.	AMOUNT
Polyethylene	9002-88-4	<100% weight
Additive	Various	<3% weight

Note: This product is not considered a hazardous material at temperatures below the melting point as determined in Section 9.

Section 3: Hazards Identification

Physical/Chemical Hazards: This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria. High dust concentrations have a potential for combustion or explosion.

Human Health Hazards: Not classified as dangerous. Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat.

Environmental Hazards: Not classified as dangerous.

Effects and Symptoms

Eyes: No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns. When heated to decomposition it emits acid smoke and irritating fumes.

Skin: No significant irritation expected other than possible mechanical irritation. Heated material can cause thermal burns.

Inhalation: Dust; exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat and lungs.

Vapor; if heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, shortness of breath.

Ingestion: No significant health hazards identified.

Section 4: First Aid Measures

Eye Contact:

Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses if worn after initial flushing and continue flushing for at least 15 minutes. Get medical attention.

Skin Contact:

Molten resin: if molten material comes into contact with skin, cool under ice water or running stream of water. Do not attempt to remove material from the skin. Removing could result in severe tissue damage. Get medical attention.

Ingestion:

If swallowed do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

Section 5: Fire Fighting Measures

Suitable extinguishing agents:

Water haze, foam, chemical powder.

For safety reasons unsuitable extinguishing agents:

water jet.

Special Hazards:

Caused by the material, its product of combustion or resulting gases: in case of fire it can release; Water (H₂O), Carbon Dioxide (CO₂), and when lacking oxygen (O₂), Carbon Monoxide (CO). The products of the burning are dangerous.

Protective Equipment:

Use a mask with universal filler. Use self-contained breathing apparatus within confined rooms.

Section 6: Accidental Release Measure

Protective Measures:

Eliminate all sources of ignition in vicinity of spilled material. Wear appropriate personal protective equipment when cleaning up spills.

Spill Management:

Avoid creating dust clouds. Shovel, sweep up or use industrial vacuum cleaner to pick up. Place in container for proper disposal. Reduce airborne dust and prevent scattering by moistening with water. Stop the source of the release if you can do it without risk. If heated material is spilled, allow it to cool before proceeding with disposal method.

Section 7: Handling and Storage

Information for safe handling:

No special requirements necessary if handled at room temperature. Avoid spilling the product, as this might cause falls. Potential toxic/irritating fumes may be evolved from heated material. Provide appropriate ventilation for such processing conditions. Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

Requirements to be met by storerooms and containers:

Take precautionary measures to prevent the formation of static electricity. Do not smoke. Ground equipment electrically.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Protect from heat and direct sunlight. Store under dry conditions.

Specific Applications:

For safe stacking follow the storage recommendations specific to this product.

Section 8: Exposure Control/Personal Protection

Engineering Controls:

Use in a well-ventilated area. If handling results in dust generation, special ventilation may be needed to ensure that dust exposure does not exceed the OSHA PEL for nuisance dust. If heated material generates vapor or fumes, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure.

Personal Protective Equipment:

Respiratory system- Product processing, heat sealing of film or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Skin and Body

Hot material: wear heat-resistant protective gloves, clothing and face shield able to withstand the temperature of the molten product.

Cold material: none required, however use of gloves is a good industrial practice.

Hand

Hot material: wear heat-resistant protective gloves able to withstand the temperature of the molten product.

Cold material: none required; however use of gloves is good industrial practice. The correct choice of protective gloves depend upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures).

Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eyes

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

Section 9: Physical/Chemical Characteristics

Physical State:	Pellets
Odor:	Slight waxy odor
Color:	Translucent to white
Freezing Point:	Not Applicable
Melting Point:	125-135°C
Boiling Point:	Not Applicable
Flash Point:	Not Applicable
Density:	0.945-0.970 g/cm ³
Specific Gravity:	Not Applicable
Autoignition Temperature:	350°C
Percent Volatile:	Not Applicable
Vapor Pressure:	Not Applicable
Water Solubility:	Insoluble
Explosive Properties:	High dust concentrations have potential for combustion or explosion

Section 10: Stability and Reactivity

Chemical Stability:

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid:

Not applicable.

Incompatibility with other materials:

May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous polymerization:

Hazardous polymerization will not occur.

Hazardous decomposition products:

Low molecular weight hydrocarbon, carbon dioxide, carbon monoxide, unidentified organic compounds.

Section 11: Toxicological Information

Primary Irritant Effect:

On the skin: No irritant effect

On the eyes: No irritant effect

Sensitization: No sensitizing effect known

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Section 12: Ecological Information

Mobility and Bioaccumulation potential: Floats on water, no bioaccumulation

Other Information: This product is non-biodegradable

General Notes: This product is not toxic, small particles can have physical effects on water and soil organisms.

Section 13: Disposal Considerations

Disposal Consideration/waste information:

Recycle to process, if possible. Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Section 14: Transport Information

Transport/Additional Information:

According to national and international guidelines, which regulate the road, rail, air and sea transport, this product is classified as not dangerous.

Section 15: Regulation Information

U.S Federal Regulations, Inventories:

U.S Inventory (TSCA):	In Compliance
Australian Inventory (AICS):	In Compliance
Canada Inventory (DSL):	In Compliance
China Inventory (IECS):	In Compliance
EC Inventory (EINECS):	In Compliance
Japan Inventory (ENCS):	In Compliance
Korea Inventory (ECL):	In Compliance

Section 16: Other Information

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Notice: This material data sheet has been based upon the data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We take no responsibility for inappropriate use, processing and handling by purchasers and users of the product.