

1. Product and Company Identification

Product Name: ESTOPLAST XU230NN01
Product Family: Polyamide – 6 compound

Usage and Restriction

Recommended usage: Injection Molding
Restriction: Industrial use only

Manufacturer/ Supplier

Manufacturer: Ester Industries Limited
P.O. Charubeta, Khatima – 262 308
Dist: Udham Singh Nagar, Uttarakhand (India)
Emergency Number: 05943-250153-57

2. Hazard Identification

Resins are not considered as hazardous at ambient temperatures
Exposure to fire may release irritating, flammable fumes and vapors

Potential Health Hazard

- Hot or molten polymer can burn the skin
 - Pellets or dusts in contact with skin may cause irritation
 - Eye contact with dusts, thermal fumes/vapors may cause irritation
 - Possible production of electrostatic charge with use.
 - Spillage of pellets may lead to slipping hazard
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3. Composition/Information on ingredients

Mixtures

Polymer: Polyamide PA-6
Additives and fillers: Lubricants & Glass Fiber

4. First-Aid Measures

Skin contact: For irritation, flush the skin with cool running water. Wash the affected area with mild soap and water. Obtain medical attention if irritation persists. If hot /molten polymer burns the skin, cool rapidly with cold water. **Do not pull the solidified product from the skin. Immediately seek medical attention.**

Eye Contact: Rinse open eye with running water then obtain medical attention

Inhalation: In case of excessive inhalation, move the person to fresh air as quickly as possible. Rest him/her in half upright position. Call for medical attention.

Ingestion: Ingestion is not a likely route of exposure. If product is ingested, seek medical help immediately.

5. Fire Fighting Measures

Suitable Extinguishing Media: Water, Foam, Dry Chemical Powder, Carbon Dioxide

Special Fire Fighting Procedures: Treat as "Class A" fire

Protective Equipments: Wear full protective clothing and positive pressure breathing apparatus

6. Accidental Release Measure

Personal Safety Measures: Wear personal protective equipments

Environmental Safety Measure: No special precautions necessary

Methods for cleaning up: Recover the product by vacuuming/shoveling
Cleaning/Decontamination

7. Handling and Storage

Information for safe Handling

- No special requirement needed if handled at room temperature
- Avoid spillage as it may cause a slip hazard
- When processing material, fumes/vapors might be observed.
- Provide effective exhaust ventilation during processing

Information for Storing

- Store in well ventilated area
 - Store in dry condition, protect from heat and direct sunlight
 - Take precautionary measure to prevent the formation of static electricity
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8. Exposure controls and Personal Protection

Exposure controls: Extract to remove vapors at their source

Personal protective equipments

- Respiratory: Use dust mask
- Eye: Wear Safety goggle
- Hand: Wear chemically protective gloves
- Body: Wear dust protective wear

Work Practice controls

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken while working with or handling this material:

- Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - Wash hands and face carefully before eating, drinking, using tobacco
 - Wash exposed skin promptly to remove accidental splashes or contact with this material.
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9. Physical and Chemical Properties

Appearance:	Pellets Natural in color
Odor:	Odorless
pH Value:	Not applicable
Melting Temperature:	220-225°C
Boling Temperature:	Substance/product decomposes therefore it is not determined
Flash Point:	Not applicable
Evaporation rate:	Not applicable
Ignition Temperature:	>450°C
Flammability:	Product will burn under fire conditions
Vapor Pressure:	Not applicable
Solubility:	Insoluble in water
Vapor Density:	Not applicable
Specific Gravity:	1.36
Self ignition temperature:	>450°C
Degradation Temperature:	325°C
Explosion Hazard:	Not explosive

10. Stability and Reactivity

Chemical Stability:	The product is stable under normal condition of use
Reactivity:	No Hazardous reaction if stored and handled as per prescribed instruction
Possibility of Hazardous reaction:	No Hazardous reaction known
Conditions to be avoided:	Remove heat fire and heat sources
Materials/Chemicals to be avoided:	Oxidizing material
Hazardous substance from thermal decomposition:	CO,CO ₂ and NO _x

11. Toxicological Information

Acute toxicity:	Contact with molten product may cause thermal burn
Acute Eye Irritation:	No test data found
Acute Skin irritation:	No test data found
Acute Respiratory irritation:	The substance is inert
Acute Inhalation toxicity:	No test data found
Acute overall toxicity:	No test data found
Additional toxicological information:	When used according to the specification, the product does not have any harmful effect according to our experience and the information provided to us.

12. Ecological Information

- The product is non-biodegradable
 - Non hazardous in contact with water
 - This product is non toxic, small particles can have physical effects with water and soil organisms
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13. Disposal Considerations

Destruction/Disposal:	Recycle the material as far as possible. Grind the product before recycle. Take necessary precautions to prevent the formation and spread of dust.
Non recycled product:	May be disposed of or combusted with domestic refuse according to local regulations.

14. Transport Information

International Regulations

Rail/Road(RID/ADR) :	Not restricted
Sea (IMO/IMDG) :	Not restricted
Air (ICAO/IATA) :	Not restricted

15. Regulatory Information

- Safety health and environmental regulations/legislation specific for the substance or mixtures
 - Chemical safety assessment is not required
 - Product is not classified as hazardous
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16. Additional Information

No additional information to be provided for this product.

IMPORTANT: THE INFORMATION, DATA AND DESCRIPTIONS CONTAINED HEREIN ARE PROVIDED IN GOOD FAITH, FOR THE PURPOSE OF SPECIFYING THE REQUIREMENTS REGARDING ENVIRONMENT, HEALTH AND SAFETY IN CONJUNCTION WITH PRODUCT AND ARE BASED ON THE CURRENT LEVEL OF INFORMATION AVAILABLE. THIS DOCUMENT IS PROVIDED FOR YOUR GUIDANCE ONLY. SINCE THERE ARE MANY FACTORS AFFECTING PROCESSING, APPLICATION OR USE, IT IS RECOMMENDED THAT INDEPENDENT TESTS SHOULD BE CONDUCTED AT YOUR END TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE BEFORE USING THE PRODUCT. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCT DESCRIBED OR DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE INFORMATION, DATA OR DESCRIPTIONS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. IN NO WAY SHALL THE COMPANY BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES TO ANY THIRD PARTY OR FOR THE LOST PROFIT OR ANY SPECIAL INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT ESTER INDUSTRIES LTD. ASSUMES NO OBLIGATION OR LIABILITY FOR THE INFORMATION, DATA, DESCRIPTIONS OR RESULTS OBTAINED. END OF DATA SHEET