



**MANUFACTURERS OF PRECISION-MADE
POLYURETHANE SPIRAL HOSE & TUBING**



**ADVANCED
TECHNOLOGY
PRODUCTS**

MATERIAL SAFETY DATA

NYLON 12 RESIN

PRODUCT IDENTIFICATION

Chemical Name:	POLY(LAUROLACTAM)
Common Name:	Nylon 12 Resin
DOT Hazard Class:	Not Applicable

COMPOSITION AND INGREDIENTS

Nylon 12 Polymer

CAS:25038-74-8

FIRST AID PROCEDURES

RESPIRATORY : Avoid breathing dust, as fine particles can be inhaled and retained in the lungs. Although these particles contain finite amounts of volatiles, they are present in trace amounts and studies indicate there is no measurable hazard from these volatiles. Vapors and fumes from melt processing may cause irritation of the nose and throat, and in cases of overexposure can cause headaches and nausea. If affected, remove to fresh air and refer to a physician for treatment. Decomposition products of Nylon 12 resin include Carbon monoxide CAS-Nr. 630-08-0, Hydrogen cyanide (HCN) CAS-Nr. 74-90-8, Ammonia (NH₃) CAS-Nr. 7664-41-7.

SKIN CONTACT : Nylon 12 resin does not require special protection for skin. Avoid prolonged periods of direct contact exposure as a safe practice. Molten plastic causes severe burns. Cool rapidly with water and obtain immediate medical attention.

EYE CONTACT : Vapors and fumes from melt processing may cause irritation. Eye contact should be avoided as a safe practice. If affected, flush with clean water.

PHYSICAL HAZARDS

Flash Point: N/A
Extinguishing Media: Water spray, CO₂, or Class A foam agent;

FIRE AND EXPLOSION HAZARD: Dust generated during grinding, handling or storage can pose an explosion hazard, and static build-up should be monitored. When burned, Nylon 12 resin will release toxic fumes.

FIREFIGHTING: Firefighters should wear protective clothing and a self-contained breathing apparatus, which should be thoroughly cleaned after use.

SAFE HANDLING, STORAGE AND DISPOSAL

STORAGE: Do not store containers near heaters, hot pipes, etc. All containers should be opened under good ventilation conditions to avoid an explosive hazard. Avoid breathing dust and fumes, and maintain proper ventilation in all storage areas.

SPILLAGE: Spilled pellets should be removed from floor areas immediately to provide stable footing.

DISPOSAL: Recycling is strongly encouraged. If necessary, Nylon 12 resin may be disposed of in a sanitary landfill licensed for receipt of non-hazardous industrial wastes, in accordance with municipal, state and federal laws and regulations. Water ash and condensed fume residues should be tested to determine waste classification. In order to protect birds and marine life which may ingest pellets, avoid discharges of pellets into drainage outlets, rivers, streams, and other bodies of water.

HANDLING: Do not exceed recommended processing temperature limits. Protective clothing, including gloves and safety glasses, should be worn when purging equipment of molten plastic. Purgings should be collected in thin strands or as small, flat thin shapes to allow for rapid cooling. Large purgings should be submerged in water to protect against auto-ignition. Areas where purgings accumulate, such as beneath die tips and nozzles, should be properly vented to evacuate all fumes and vapors which may cause irritation and illness. Avoid strong acids and oxidizers.