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Form #: STI-008      Date: revision 004 9/30/2014

**Section 1. Product Identification: Polyamide 6**

Part Numbers: 26500, 26510, 26520, 26530, 26540

**Section 2. Hazards Identification**

Emergency Overview: Odorless white powder. Caution: May cause skin irritation. May cause irritation to eyes and respiratory

tract. Ingestion may cause gastric disturbances.

Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Routes of Exposure:

Eyes: May cause mild physical irritation.

Skin: May cause irritation with dryness and abrasion.

Ingestion: May cause gastric disturbances.

Inhalation: May cause irritation of respiratory tract due to drying and abrasive actions of dust.

Chronic Effects: No adverse effects expected.

Carcinogenic Effects: IARC: Category 3      NTP: Not listed      OSHA: Not regulated

**Section 3. Composition / Information on Ingredients**

Ingredient	CAS No.	%
Polyamide 6	25038-54-4	> 98.0 %

Synonyms: Nylon 6; PA6; Perlon; Polycaprolactam; Polyamide resin

**Section 4. First Aid Measures**

Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.

Eyes: Flush with copious amounts of water for 15 minutes. Seek medical attention if irritation occurs.

Ingestion: Ingestion is not likely in the physical form. Seek medical attention if gastrointestinal symptoms develop.

Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

**Section 5. Fire Fighting Measures**

Flash Point: > 400 deg. C

Non-flammable: Not considered a fire hazard.

Flammability Limits in Air: LFL and UFL Not Applicable.

Auto ignition temperature: Not available

General Hazard: Not considered to be a fire hazard.

Fire Fighting Instructions: Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Special Fire Hazard: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH, and full protective gear..

NFPA rating: Health: 0, Flammability: 0, Reactivity: 0

## Section 6. Accidental Release Measures

If a Spill or Leak Occurs: Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. Prevent product from entering drains.

Disposal Method: Sweep up and shovel into suitable containers for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for

## Section 7. Handling and Storage

Handling: Avoid prolonged contact with eyes and skin. Do not breath dust. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling.

Storage: Store in cool, dry, ventilated area and in closed containers. Protect against moisture. Avoid deposition of dust.

## Section 8. Exposure Controls / Personal Protection

Engineering Controls: Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin protection: Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection: Keep dust exposure to a minimum with engineering and administrative controls. Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/ MSHA or the manufacturer.

Airborne Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS
Polyamide 6 25038-54-4	5 mg/m <sup>3</sup> TWA respirable fraction	3 mg/m <sup>3</sup> respirable particles	

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

## Section 9. Physical and Chemical Properties

Physical State: Solid

Appearance and odor: White powder with no odor

pH: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Negligible

Melting Point: approx. 220 deg. C

Volatiles %: Not applicable

Specific Gravity: 1.01 to 1.14 (Water = 1)

Solubility: Negligible (< 0.1%)

Molecular Formula: (C<sub>6</sub>H<sub>11</sub>NO)<sub>n</sub>

Molecular weight: Not available

## Section 10. Stability and Reactivity

Stability: This product is stable under the specified conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight. Do not store above 24 deg. C.

Incompatibility: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid strong reducing agents; reacts violently with many compounds including oxidizers, acids, caustics, halogens, halogenated hydrocarbons, nitrates, sulfate, methyl chloride, mercury and mercury compounds.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

Hazardous Polymerization: Does not occur.

## Section 11. Toxicological Information

Acute Toxicity LD50/LC50: No information found relating to normal routes of occupational exposure.

Carcinogenicity: CAS# 25038-54-4: IARC: Category 3 NTP: Not listed OSHA: Not regulated

Target Organs or System: Eyes, skin and upper respiratory system.

Signs and Symptoms of Exposure: Skin: May cause Irritation and redness. Eyes: Nuisance dust, dust may cause mechanical eye irritation. Inhalation: Nuisance dust, may be irritating to mucous membranes and upper respiratory tract, lung injury may occur. Ingestion: Ingestion of large amounts may cause gastrointestinal tract irritation. It is expected to be a low hazard for normal industrial handling.

## Section 12. Ecological Information

Ecotoxicity: Not determined on the finished product.

Persistence/ Degradability: Not determined on the finished product.

Bioaccumulation/Accumulation: The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in Environmental Media: Not determined on the finished product.

Aquatic Toxicity: No information found.

## Section 13. Disposal Considerations

This product is not considered a hazardous waste. Vacuum or shovel material into a closed container for reuse or disposal. Storage and disposal should be in accordance with applicable local state and federal laws and regulations.

Local regulations may be more stringent than state or federal requirements.

RCRA P-Series: None listed

RCRA U-Series: None listed

## Section 14. Transport Information

Land: US DOT: Not regulated

Water: IMO/IMDG: Not regulated

Air: IACO/IATA: Not regulated

## Section 15. Regulatory Information

### US Federal

TSCA: CAS# 25038-54-4 is listed on the TSCA inventory

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA 311/312 Codes: Not hazardous.

SARA Section 313: No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depleters or Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

### States

CAS# 25038-54-4

California Prop 65: Not listed.

Massachusetts: Not listed

New Jersey Right to Know: Not listed

Pennsylvania: Not listed

Florida: Not listed

Rhode Island: Not listed

Illinois: Not listed

Connecticut - Hazardous Air pollutants: Not listed

**Canadian Classification**

WHMIS: Not available

DSL: Listed

**EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.**

Risk and Safety Phrases: S24/25: Avoid contact with skin and eyes.

**Section 16. Additional Information**

**HMIS Rating (USA):**

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E (safety glasses, gloves, dust respirator)

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*SDS REVISION SUMMARY: revision 004 replaces revision 003 dated 1/31/14.*