



# SDS

## Safety Data Sheet

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## Section 1. PRODUCT IDENTIFICATION

### Product Identifiers

Product Name: Polyamide 6

CAS number: 25038-54-4

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

Synonyms: Poly[imino(1-oxo-1,6-hexanediyl)], Polyamide resin, Nylon 6, PA6.

Recommended use: Filtration aid, Chromatography, Laboratory chemicals.

Uses advised against: No information available

### Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

5955 Peachtree Corners East

Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

## Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

### GHS Classification of the Substance or Mixture including Precautionary Statements:

Not a hazardous substance or mixture.

GHS Label Elements, including Precautionary Statements: None required. Not a hazardous substance or mixture.

Signal word: None

#### Hazard statement: Precautionary Statement:

Prevention: P261: Avoid breathing dust/fume.

P264: Wash thoroughly after handling.

Response: P304: IF INHALED: Remove to fresh air.

Storage: P402: Store in a dry place.

Disposal: P501: Dispose of waste and residues including containers in accordance with local authority requirements.

Other Hazards Not Otherwise Classified (HNOC): None identified

Supplemental Information: Results of PT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:: Substances

Ingredient	CAS No.	Concentration %
Polyamide (ε-aminopolycaprolactam)	25038-54-4	80—<99%

Substance Rating: No criteria for classification or naming of chemical not required.

Synonyms: PolyPoly {imino(1-oxo-1,6-hexanediyl)}

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

REACH Reg. No.: Monomer is registration.

Acc.CLP (GHS): The criteria for classification are not fulfilled.

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## Section 4. FIRST AID MEASURES

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### Description of First Aid Measures

**General Advice:** Move out of dangerous area.

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

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

**If ingested:** Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.

**If inhaled:** Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

### Most Important Symptoms and Effects, both acute and delayed:

No information available

**Indication of any immediate medical attention and special treatment needed:** No information available.

Notes to Physician: Treat symptomatically

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## Section 5. FIRE-FIGHTING MEASURES

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### Extinguishing Media

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media:** Not applicable

Flash Point: Not applicable

Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).

Flammability Limits in Air: LFL and UFL not applicable.

Autoignition temperature: Not applicable.

### Special hazards arising from the substance or mixture:

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.

### Advice for Firefighters:

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: Under certain conditions, any airborne dust be an explosion hazard.

Hazard greater as fineness increases.

Special Fire Hazard: None

### Additional Information

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

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## Section 6. ACCIDENTAL RELEASE MEASURES

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### Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

### Environmental Precautions

No special environmental precautions required.

### Methods and Material for Containment and Clean-up

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 non-hazardous wastes.

**Reference to other sections:** For disposal see section 13.

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## Section 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

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

### Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.

Storage class (TRGS 510): Non-combustible Solids VCI: 11.

Water hazard class (DE): 0

### Specific End Use(s):

Product for analytical use .

Product for cleaning and filtration aid.

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## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control Parameters

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region regulatory bodies.

Component	OSHA PEL	ACGIH TLV
Polyamide (ε-aminopolycaprolactam) (25038-54-4)	5 mg/m <sup>3</sup> TWA (respirable fraction)	3 mg/m <sup>3</sup> (respirable particles)

Component	Canada Quebec	Canada Ontario TWA EV	Mexico OEL (TWA)
Polyamide 6 (25038-54-4)	TWA: 2 mg/m <sup>3</sup> (respirable fraction)	TWA: 2 mg/m <sup>3</sup> (respirable fraction)	TWA: 10 mg/m (respirable fraction)

ACGIH is the American Conference of Governmental Industrial Hygienists

OSHA is the Occupational Safety and Health Administration

NIOSH is the National Institute of Occupational Safety and Health

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.

### Exposure Controls

Appropriate 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: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). 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: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

Body protection: Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

Respiratory Protection: Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. 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. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

### General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be Available close to work areas.

### Environmental Exposure Controls

No special environmental precautions required.

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## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Information on Basic Physical and Chemical Properties

Physical State:	Powder (Solid)
Appearance:	White to off-white powder
Odor:	Odorless
Odor Threshold:	No data available
pH:	No data available
Melting Point/Range:	>215 deg. C / (428 deg. F) - OECD Test Guideline 102
Boiling Point/Range:	No information available
Flash Point:	Not applicable
Evaporation Rate:	No data available
Flammability (solid, gas);	No data available
Flammability or Explosive Limits	Upper: No data available Lower: No data available
Vapor Pressure:	No data available
Vapor Density:	No information available
Specific gravity:	1.14 g/cm <sup>3</sup> (water =1)
Solubility in water:	0%
Partition Coefficient; n-octanol/water:	No data available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Explosive properties:	No data available
Oxidizing properties:	Not an oxidizer
Molecular Formula:	(C <sub>6</sub> H <sub>11</sub> NO) <sub>n</sub>
Particle size:	<70/50—>160 um
Other Safety Information:	No data available

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## Section 10. STABILITY AND REACTIVITY

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### Reactivity

None reactive under normal conditions of use.

### Chemical Stability

This product is stable under the specified conditions of storage, shipment and use.

### Possibility of Hazardous Reactions

No data available.

### Conditions to Avoid

Avoid generation of dust in handling and use.

### Incompatible Materials

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion.

### Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions: Carbon oxide , nitrogen oxides.

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## Section 11. TOXICOLOGICAL INFORMATION

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### Information on Toxicological Effects

#### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyamide 6	No data available (OECD Guideline 401)	No data available (OECD Guideline 402)	Mouse 30hr, 11,000mg/m <sup>3</sup> (OECD Guideline 403)

Toxicologically Synergistic Products: No information available .

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure

Skin corrosion/irritation: Skin—Rabbit, Result: No skin irritation –24hr. (OECD Test Guide 404)

Serious eye damage/eye irritation: Eyes—Rabbit, Result: No eye irritation (OECD Test Guide 405)

Respiratory or skin sensitization: Draize test—Guinea pig, Result: No information available.

Germ cell mutagenicity: No data available. Ames test, Bacillus subtilis, Result: negative (IUCRID)

**Carcinogenicity** Table below indicates if each agency has listed any ingredient as a Carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
Polyamide 6	25038-54-4	Not listed	Not listed	Not listed	Not listed	Not listed

**Reproductive Effects:** No information available.

**Developmental Effects:** No information available.

**Teratogenicity:** No information available.

**Specific Target Organ Toxicity (STOT)-single exposure:** None known.

**Specific Target Organ Toxicity (STOT)-repeated exposure:** None known.

**Aspiration hazard:** No information available

**Symptoms / Effects, Both Acute and Delayed:** No information available.

**Endocrine Disruptor Information:** No information available.

**Other Adverse Effects:** No information available.

RTECS: Not available

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## Section 12. ECOLOGICAL INFORMATION

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### Toxicity

No information available.

### Persistence/ Degradability

No information available.

### Bioaccumulation Potential

Does not bioaccumulate.

### Mobility in Soil

No information available.

### Results of PBT and vPvB assessment

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or Very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other Adverse Effects

No information available.

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## Section 13. DISPOSAL CONSIDERATIONS

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### Waste Treatment Methods

Product: 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.

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

RCRA P-Series: None listed

RCRA U-Series: None listed

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## Section 14. TRANSPORTATION INFORMATION

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Land: **DOT (US):** Not regulated  
**ADR/RID (EU):** Not regulated  
**TDG (Canada):** Not regulated  
Water: **IMO/IMDG:** Not regulated  
Air: **IACO/IATA:** Not regulated

**Transportation in Bulk (according to Annex of MARPOL 73/78 and the IBC Code):** Not applicable.

### Special Precautions for User

No information available

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## Section 15. REGULATORY INFORMATION

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### Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Polyamide 6	X	X	-		-		X	X	X	X	X

X indicates listed

### U.S. Federal Regulations

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 Codes: CAS# 25038-54-4: None

SARA 311/312 Hazardous Categorization:

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure: No

Reactive Hazard: No

SARA Section 313: No SARA hazards.

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.

OSHA: Not applicable

CERCLA: Not applicable

### U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No

DOT Marine Pollutant: No

DOT severe Marine Pollutant: No

### U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

### States Right-to-Know

Polyamide 6 CAS# 25038-54-4

California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts: No components are subject to the Massachusetts Right-to Know Act.

New Jersey Right to Know: Listed.

Pennsylvania: Listed.

## Canadian Classification

WHMIS: Non-controlled.

DSL: Listed.

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

Risk and Safety Phrases: S2: Keep out of reach of children,,  
S46: If swallowed, seek medical advice immediately and show this on the container or label.

## Mexico—Grade

No information available.

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## Section 16. OTHER INFORMATION

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### HMIS Rating (USA):

Health Hazard: 0

Flammability: 0

Physical Hazard: 0

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

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders*

**SDS REVISION SUMMARY:** Revision 006 dated 8/07/2025 replaces revision 005 dated 3/19/2021..

*This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)*