



## SAFETY DATA SHEET

Revision Date: 11/02/23

## Section 1: Identification

## PRODUCT AND COMPANY INFORMATION

**Product Name:** Nylon 11 [(Poly(undecanoamide))]  
**Catalog Number(s):** 006  
**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519  
**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** www.scipoly.com  
**Molecular Formula:**  $(C_{11}H_{23}NO_2)_x$   
**Emergency Phone Number:** 800-255-3924 (CHEM TEL)

## Section 2: Hazards Identification

## Classification of the substance or mixture

Not a hazardous substance or mixture.

## GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

## Supplemental Hazardous Statements:

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

Hazards not otherwise classified (HNOC) or not covered by GHS – none

## Supplemental Information:

## Potential Health Effects:

The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Contains high molecular weight polymer(s). Effects due to processing releases: Irritating to eyes, respiratory system and skin. Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure).

## Other:

Handle in accordance with good industrial hygiene and safety practice. (Pellets/granules) This product may release fume and/or vapor of variable composition depending on processing time and temperature.

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

## Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Nylon 11	25587-80-8	100

## Section 4: First Aid Measures

### Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product from the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### In case of eye contact

Immediately flush eyes with water.

#### If swallowed

DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire-Fighting Measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon oxides, Hazardous organic compounds, Hydrogen cyanide (hydrocyanic acid)

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Further information

No data available

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Prevent further leakage or spillage if you can do so without risk. For personal protection see section 8.

### Environmental precautions

No special environmental precautions required.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Avoid breathing dust. Avoid breathing processing fumes or vapors. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place. Keep in a dry place.

## Section 8: Exposure Controls/Personal Protection

### **Airborne Exposure Guidelines:** **Particles Not Otherwise Specified/Nuisance Dust (Proprietary)**

#### US. ACGIH Threshold Limit Values

Form:	Inhalable Particles (Time Weighted Average):	10 mg/m <sup>3</sup>
Form:	Respirable Particles (Time Weighted Average):	3 mg/m <sup>3</sup>

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Form:	Respirable Particles (PEL):	5 mg/m <sup>3</sup>
Form:	Total Dust (PEL):	15 mg/m <sup>3</sup>

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Form:	Respirable Fraction (Time Weighted Average):	15 millions of particles per cubic foot of air
Form:	Total Dust (Time Weighted Average):	50 millions of particles per cubic foot of air
Form:	Respirable Fraction (Time Weighted Average):	5 mg/m <sup>3</sup>
Form:	Total Dust (Time Weighted Average):	15 mg/m <sup>3</sup>

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer above mean that exposure to this material may cause allergic reactions.

### **Appropriate engineering controls** General industrial hygiene practice.

### **Personal protective equipment**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **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. Wash and dry hands.

#### **Body Protection**

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

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

No special environmental precautions required.

## Section 9: Physical and Chemical Properties

### **Information on basic physical and chemical properties**

a)	Appearance	Form: Beads
b)	Odor	Odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available

h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

#### Other safety information

No data available

### Section 10: Stability and Reactivity

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

#### Incompatible materials

Strong oxidizing agents, Strong acids

#### Hazardous decomposition products

Thermal decomposition giving toxic, flammable, and/or corrosive products:

Carbon oxies

Ammonia

Hydrogen cyanide (hydrocyanic acid)

Hazardous organic compounds

Amine derivatives

### Section 11: Toxicological Information

#### Acute Toxicity:

**Oral:** No deaths occurred (Rat) LD<sub>0</sub> >2,000 mg/kg

**Dermal:** No deaths occurred (Rat) LD<sub>0</sub> >2,000 mg/kg

**Skin Irritation:** Not irritating (In vitro)

**Eye Irritation:** Not corrosive (Bovine cornea)

**Skin Sensitization:** Not a sensitizer. LLNA: Local Lymph Node Assay. (Mouse) No effect is reported.

**Repeated Dose Toxicity:** Sub-chronic dietary administration to rat, dog/No adverse systemic effects reported.

#### Genotoxicity:

**Assessment in Vitro:** No genetic changes were observed in laboratory tests using: bacteria

#### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

No data available

## Section 12: Ecological Information

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

## Section 13: Disposal Considerations

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## Section 14: Transport Information

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

## Section 15: Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

No SARA Hazards

### Massachusetts Right to Know Components

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

### Pennsylvania Right to Know Components

Nylon 11	CAS-No. 25587-80-8
----------	-----------------------

### New Jersey Right to Know Components

Nylon 11	CAS-No. 25587-80-8
----------	-----------------------

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: Other Information

### HMIS Rating

Health:	0
Flammability:	0
Reactivity:	0

### NFPA Rating

Health:	0
Flammability:	0
Reactivity:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.