

MSDS NO. NYLON

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SECTION 1: IDENTIFICATION

Product Identifier: Nylon 66

Chemical Formula: Hexamethylene adipamide

General Product Use: May be used to produce molded or extruded articles or as a

component of other industrial products.

Manufacturer: Star Plastics, LLC

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SECTION 2: HAZARD(S) IDENTIFICATION

Classifications: Use Appendices to 1910.1200 to determine Hazard

Classification.

Pictograms:

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Signal Word: Warning

Hazard Statements: May cause respiratory irritation.

Other Hazards not Otherwise Classified: Pellet inhalation unlikely due to physical form.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical/Component Name

CAS Number

Weight %

Poly(hexamethylene adipamide) Aluminum borosilicate glass 32131-17-2 65997-17-3

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SECTION 4: FIRST-AID MEASURES

Fume inhalation: Leave contaminated area and breathe fresh air. If Inhalation:

> coughing, difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms develop at a later time.

Flush immediately with large amounts of water for at least 15 minutes. If Eye Contact:

irritation persists, call medical support.

Skin Contact: For skin contact with fume condensate, immediately wash thoroughly

with soap and water. If irritation develops seek medical attention.

For molten plastic skin contact, cool rapidly with water and immediately seek medical attention. Do not attempt removal of plastic without

medical assistance. Do not use solvent for removal.

Ingestion: Not probable.

Most important Fumes produced during melt process of plastics may produce acute symptoms/effects:

health effects in some individuals, especially irritation of eyes/nose and

throat in cases of severe overexposure, nausea and headaches.

Molten plastic can cause severe thermal burns. Fumes produced during Indication of

immediate medical melt processing may cause eye, skin and respiratory tract irritation. treatment:

SECTION 5: FIRE-FIGHTING MEASURES

precautions for fire-

Suitable (and unsuitable) Water spray and foam. Water is the best extinguishing medium. **Extinguishing Media:**

Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

Specific Hazards arising Hazardous combustion products may include intense heat, dense from the chemical: black smoke, carbon monoxide, carbon dioxide and hydrocarbon

fragments.

Special protective Wear NIOSH/MSHA approved SCBA and full protective equipment. equipment and

> fighters: and vigorous efforts to bring about control of the fire, and

suppression of the fire should begin immediately. The plastic will melt, but it will not be carried on the surface of the water, and water can be freely used to control the fire. Use a water spray to cool fireexposed containers, and to solidify. Do not release runoff from fire

The fuel content and temperatures will require immediate attention

control methods to sewers or waterways.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal

Precautions/protective equipment/emergency procedures:

Methods/materials for containment & clean-up:

Pellets: Remove from all floor areas to allow for stable footing and

preventing slips by personnel.

Soil: Collect for re-use or appropriate disposal. Solids can be

separated.

Water: Notification of government agency may be appropriate.

Air: Not likely to be released.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Secondary operations such as grinding, sanding or sawing may produce

Handling: a dust explosion hazard. Use aggressive housekeeping activities to

prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering

practices.

Conditions for Safe Avoid storing containers near foodstuffs due to possibility of odor and

Storage: taste contamination of food.

Do not store containers near heating devices, hot pipes, etc.

Store in a dry place away from moisture, excessive heat and sources of

ignition.

Read and become familiar with all labels and instructions of packaging.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL/ACGIH/TLV:

OSHA PEL (TWA) STEL Ceiling

for codes containing high black

content

Carbon Black 3.5 mg/m³

for codes containing high white

content

Titanium Dioxide 15 mg/m³

Appropriate Recommended, sufficient ventilation to control fumes.

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Engineering Controls: Individual Protection Measures:

Respiratory Protection: Under conditions of excessive fume concentration, a NIOSH/MSHA

approved device with organic vapor acid gas rating or fresh air supply should be used. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and,

if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne

contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and

convenient, sanitary storage areas.

Hand Protection: Wear gloves that will prohibit penetration when handling hot plastic.

Eye Protection: ANSI approved safety glasses or chemical workers goggles.

Other Protective Ordinary work clothes.

Equipment:

Work Hygienic Wash hands with soap and water before eating or smoking and at the

Practices: end of each work day.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid, plastic pellet Explosive Limits: Unknown

(physical state, color,

etc.):

Odor: Slight Vapor Pressure: Negligible Odor Threshold: N/A Vapor Density: Unknown

pH: N/A Relative Density: Unknown

Freezing/Melting This product does not exhibit a Solubility: Insoluble

point: sharp melting point, but softens

gradually over a wide temperature range.

Boiling Point/Range: N/A Other Solubility: Unknown

Flash Point: Unknown
Evaporation Rate: N/A
Partition Coefficient: Unknown
Auto-Ignition Temp: 630C (1166F),
estimated

Flammability (solid, N/A Decomposition Temp: Unknown

gas):

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Viscosity: N/A UEL/LEL: Unknown

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under recommended conditions of handling, storage,

processing and use.

Chemical Stability: Stable under recommended conditions of storage and handling.

Possibility of Hazardous None

Reactions:

Conditions to Avoid: Do not exceed melt temperature recommendations in product

literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and

quench in water.

Incompatible Materials:

Hazardous Decomposition Processing fumes evolved at recommended processing conditions

of Products: may include trace levels of carbon dioxide, water, amines,

hydrocarbons, ammonia and carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Routes of Exposure: Inhalation, skin, ingestion

Eye: Product may cause irritation or injury due to mechanical action.

Skin Contact: Pellets not likely to cause skin irritation.

Molten plastic can cause severe thermal burns.

Ingestion: Not acutely toxic.

Inhalation: Pellet inhalation unlikely due to physical form.

Symptoms: Fumes produced during melt processing may cause eye, skin and

respiratory tract irritation.

Delayed & Immediate Acute Effects: Fumes produced during melt process of plastics may

Effects: produce acute health effects in some individuals, especially irritation of eyes/nose and throat in cases of severe overexposure, nausea and

eyes/nose and throat in cases of severe overexposure, nausea and headaches. Fumes emitted from hot plastic during conversion may

condense on cool overhead metal surfaces/structures.

Chronic Effects: No known

Numerical Measures of

Toxicity:

Carcinogenicity: OSHA, IARC and NTP have listed carbon black as carcinogen. Titanium

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Dioxide has been identified as a suspected or confirmed human carcinogen. OSHA, IARC and/or NTP have listed heavy metals, present in some colorants as carcinogens. These colorants are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity: N/A

Persistence and degradability: N/A Bioaccumulation potential: N/A

Mobility in soil: N/A

Other adverse effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Landfill waste plastic if codes permit/incinerate if codes and equipment permit. Incinerating equipment should be capable of handling large volumes of dense, black smoke and withstand effects of acid gases. Pellet materials not considered hazardous waste.

SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)

UN Number N/A

UN Proper Shipping Name N/A

Transport Hazard Class(es) N/A

Packing Group, if applicable N/A

Environmental hazards (eg, Marine pollutant) N/A

Transport in Bulk (according to Annex II of MARPOL 73/78 and N/A

the IBC Code)

Special Precautions which a user needs to be aware of, or N/A needs to comply with, in connection with transport of

conveyance either within or outside their premises.

DOT Transportation Data: 49 CFR 172.101

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SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

Safety, Health and Environmental Regulations specific for the product in question.

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) Unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311

(b)(4); CWA, Sec. 307(a), CAA, Sec. 112

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance: Not listed.

TSCA: Listed

State Regulations:

California Proposition 65:



WARNING: This product can expose you to chemicals: No components which is [are] known to the State of California to cause cancer.

birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

Listed on the active section of the TSCA Inventory

SECTION 16: OTHER INFORMATION

Prepared By: Star Plastics, LLC **Date of Preparation:** 8/1/25

Revision: 02

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.