

# NYLON 12 · Safety Data Sheet

In accordance with paragraph (d) of 29 CFR 1910.1200:2012 Regulation (EU) No. 1907/2006

## Section 1. Chemical Product and Company identification

<b>Product Name</b>	KODAK 3D Printing Filament Nylon 12
<b>Importer</b>	Smart International Inc. 2035 Sunset Lake Road Newark, Delaware 19702 USA. Email: support@smart3d.tech USA Emergency Poison Control Hot Line (24/7): 1 (800) 222-1222 or call your LOCAL POISON CONTROL CENTER

## Section 2. Hazards Identification

<b>GHS Classification</b>	Not applicable	<b>Precautionary statements</b>	
<b>GHS label elements Hazard symbols</b>	None needed	<b>Prevention</b>	None needed
<b>Signal word</b>	None needed	<b>Response</b>	None needed
<b>Hazard statement</b>	None needed	<b>Storage</b>	None needed

<b>EU Classification</b>	
<b>Classification of substance or mixture</b>	This product is not classified as dangerous according to EC criteria.
<b>REGULATION (EC) No 1272/2008</b>	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulation.
<b>OSHA Regulatory Status</b>	This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Other hazards</b>	NFPA rating: (0-4 steps) Health=1, Flammability=0, Reactivity=0

## Section 3. Composition

<b>Chemical name</b>	Polyamide 12
<b>Chemical Family</b>	Polymer, thermoplastic copolymer
<b>Product Use</b>	Monofilament for FFF 3D Printing

<b>Chemical name</b>	<b>CAS n./ECL n./EINECS n.</b>	<b>Contents (%)</b>
Polyamide 12	24937-16-4	>98

## Section 4. First-Aid Measures

<b>Inhalation</b>	Heating may release irritating fumes. Move exposed person to fresh air keep at rest in a comfortable position. Drink water to clean the throat and blow nose to remove the dust. Get medical advice.
<b>Skin Contact</b>	It is unlikely that first aid shall be needed. In case of contamination, rinse skin with running water. Molten material may cause thermal burns. Get medical attention when in case of burn or skin irritation.
<b>Eye Contact</b>	It is unlikely that first aid shall be needed. In case of dust in the eyes, rinse immediately eyes with plenty of water at least 15 minutes. If irritation persists, get medical advice from and ophthalmologist.
<b>Ingestion</b>	Not likely due to nature of product. It is unlikely that first aid shall be needed. The product is not considered toxic. Drink plenty of water. It may cause gastrointestinal blockage, get medical advice.
<b>Notice to Physician</b>	It is unlikely that first aid shall be needed if the product is used under ordinary conditions. Treat symptomatically according to victim's conditions and specifics of incident.
<b>Antidote</b>	None known. Treat symptomatically and supportively.



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## Section 5. Fire-fighting Measures

<b>Flammability</b>	Autoignition temperature. Not self-igniting
<b>Suitable extinguishing media</b>	Water, foam, regular dry chemical, carbon dioxide.
<b>Unsuitable extinguishing media</b>	None known
<b>Specific hazards arising from the chemical</b>	Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide, Hydrogen cyanide (HCN). Levels of fire hazard: Not available.
<b>Fire fighting procedures and equipment</b>	Wear appropriate personal protective equipment (see section 9. EXPOSURE CONTROLS/PERSONAL PROTECTION). Avoid inhalation of smoke or gas when fire fighting. Use self contained breathing apparatus (SCBA) for protection against possible exposure. Isolate hazard area and deny entry. Stay upwind and keep out of low areas. Move container from fire area if it can be done without risk. Cool containers with water until well after fire is out.
<b>Special Protective Equipment and Precautions for Firefighters</b>	Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

## Section 6. Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency procedures</b>	Perform in accordance with section 9. EXPOSURE CONTROLS/PERSONAL PROTECTION. Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.
<b>Methods and Materials for Containment and Cleaning Up</b>	Where possible allow leak of molten material to solidify before disposal in an appropriate container. Dispose in accordance with all applicable regulations.
<b>Environmental Precautions</b>	Avoid dispersal of spilt material and runoff and contact with waterways, drains, sewers and basements or confined areas. If large spills, advise emergency services. Comply with all applicable regulations on spill and release reporting.

## Section 7. Handling and Storage

<b>Handling</b>	Keep away from the molten plastic while printing in case of being burned.
<b>Storage</b>	Store at temperatures not exceeding 50°C/122°F. Keep cool. Avoid heat, flames, sparks and other sources of ignition. Keep away from incompatible materials.
<b>Incompatible Materials</b>	Oxidizing agents

## Section 8. Exposure Controls / Personal Protection

<b>Exposure limit under ISHL</b>	Not applicable	<b>EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health</b>	
<b>ACGIH</b>	Not applicable		
<b>Biological exposure limits</b>	Not applicable		
<b>Personal Protective Equipment</b>		<b>Surveillance Measures</b>	There are no biological limit values for any of this product's components
<b>Respiratory Protection</b>	No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, Respiratory protection may be needed	<b>Engineering Controls</b>	A system of local and/or general exhaust ventilation system is recommended to keep exposure below the Exposure Limits. Local exhaust ventilation is considered sufficient to effectively remove emissions (dusts and fumes) of the contaminant at its source, preventing dispersion during handling or thermal processing.
<b>Eye/face/skin Protection</b>	None during normal use. Protect against molten solid by wearing protective gloves.		



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## Section 9. Physical & Chemical Properties

<b>Appearance</b>	Monofilament, spool
<b>Physical State</b>	Solid
<b>Odor</b>	Odorless, plastic
<b>pH</b>	Not available
<b>Melting point</b>	170-190°C
<b>Initial Boiling Point/Boiling Ranges</b>	Not available
<b>Evapourating Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or explosive limits</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Solubility</b>	Insoluble
<b>Vapour density (Air=1)</b>	Not available
<b>Relative density</b>	>1.0
<b>Partition coefficient of n-octanol/water</b>	Not available
<b>Autoignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	>350°C
<b>Molecular weight</b>	Not available

## Section 10. Stability & Reactivity

<b>Reactivity/Stability</b>	This product is chemical stable under recommended storage, handling, use and temperature conditions.
<b>Possibility of Hazardous Reaction</b>	Will not polymerize.
<b>Conditions to Avoid</b>	Avoid contact with heat above 200°C, sparks, flame or other ignition sources.
<b>Materials to Avoid</b>	Strong oxidizing agents such as liquid chlorine and concentrated oxygen.
<b>Hazardous Decomposition Products</b>	Material does not decompose at ambient temperatures. Combustion or high heat may produce thermal decomposition products that may include carbon monoxide, carbon dioxide dense smoke, and other toxic vapors.

## Section 11. Toxicological Information

<b>Information on the likely routes of exposure</b>	
<b>Inhalation</b>	No data available. Not expected to be harmful. Dust may cause Irritation of the upper respiratory tract.
<b>Ingestion</b>	No data available. Not expected to be harmful.
<b>Eye/Skin</b>	No data available. Not expected to be harmful. Molten material may cause burns.
<b>Genotoxicity</b>	No data available. Not expected to be harmful.
<b>Medical Conditions Aggravated by Exposure</b>	No data available.

## Section 12. Ecological Information

<b>Ecotoxicity</b>	No data available.
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulative Potential</b>	No data available.
<b>Mobility</b>	No data available.

## Section 13. Disposal Considerations

<b>Disposal methods</b>	Dispose of contents/container in accordance with applicable local, regional, national, and/or international laws and regulations. Avoid release to the environment. Incineration should be done in accordance with prevailing municipal, state, and federal laws and standards from local environmental agencies.
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## Section 14. Transport Information

<b>US DOT Information</b>	
<b>UN/NA number</b>	Not regulated for transport of dangerous goods
<b>Proper shipping name</b>	None
<b>Hazard class</b>	Not applicable
<b>Packing group</b>	None

<b>ICAO/IATA</b>	
<b>UN-No.</b>	Not regulated for transport of dangerous goods
<b>Proper shipping name</b>	None
<b>Hazard class</b>	Not applicable
<b>Packing group</b>	None

<b>IMDG:</b>	
<b>UN/Id No.:</b>	Not regulated for transport of dangerous goods
<b>Proper shipping name</b>	None
<b>Hazard class</b>	Not applicable
<b>Packing group</b>	None



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## Section 15. Regulatory Information

U.S. Federal Regulations	
<b>OSHA (29CFR 1910.1200):</b>	Not listed
<b>SARA 313</b>	Not listed
<b>EC Classification:</b>	Not listed.
<b>Issue date: 2017. 10. 28</b>	

### Disclaimer:

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