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

Product Name: KODAK 3D Printing Filament HIPS

Importer:
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

GHS Classification: Not applicable

GHS label elements
Hazard symbols: None needed.
Signal word: None needed.
Hazard statement: None needed.

Precautionary statements
Prevention: None needed.
Response: None needed.
Storage: None needed.

EU Classification

Classification of substance or mixture:
REGULATION (EC) No 1272/2008
This product is not classified as dangerous according to EC criteria.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulation.

OSHA Regulatory Status
This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Other hazards which do not result in classification:
NFPA rating: (0~4 steps) Health=1, Flammability=0, Reactivity=0

Section 3. Composition

Chemical name: High impact polystyrene

Chemical Family: Polymer, thermoplastic copolymer.

Product Use: Monofilament for FFF 3D Printing

Chemical name	CAS n./ECL n./EINECS n.	Contents (%)
Mixture of severely hydrotreated and hydrocracked base oil*	64742-54-7/ 265-157-1	65~75
1-Decene Homopolymer Hydrogenated	68037-01-4	15~25
Thermoplastic Elastomer	68648-89-5	5~10
Acrylic copolymer	38747-70-0	1~5

* This material satisfies note L of the CLP classification and can be shown to contain less than 3% DMSO extract as measured by IP346. Therefore it is not classified as carcinogenic.

Section 4. First Aid Measures

Inhalation:
No data available. Not expected to be harmful. Dust may cause irritation of the upper respiratory tract.

Ingestion:
There were no target organ effects noted following ingestion in animal studies.

Eye/Skin:
There were no target organ effects noted following dermal exposure in animal studies Did not cause skin allergic reactions in skin sensitization studies using guinea pigs. Molten material may cause burns.

Genotoxicity:
Not mutagenic in AMES Test (rat).

Notice to Physician
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.

Antidote
None known. Treat symptomatically and supportively.

Section 5. Fire-fighting Measures

Flammability:
Autoignition temperature: >200°C

Suitable extinguishing media
Water, foam, regular dry chemical, carbon dioxide.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
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.

Hazardous Combustion Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Sulphur oxides (SOx).
Levels of fire hazard: Not available

Fire fighting procedures and equipments
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.

Special Protective Equipment and Precautions for Firefighters
Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency procedures
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.

Methods and Materials for Containment and Cleaning Up
Where possible allow leak of molten material to solidify before disposal in an appropriate container. Dispose in accordance with all applicable regulations.

Environmental Precautions
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

Handling
Keep away from the molten plastic while printing in case of being burned.

Storage
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.

Incompatible Materials
Oxidizing agents.

Section 8. Exposure Controls & Personal Protection

Component Exposure limit

Exposure limit under ISHL	Not applicable
ACGIH	Not applicable
Biological exposure limits	Not applicable

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health

Surveillance Measures
There are no biological limit values for any of this product's components.

Engineering Controls
A system of local and/or general exhaust ventilantion 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.

Personal Protective Equipment

Respiratory Protection
No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.

Eye/face/skin Protection
None during normal use. Protect against molten solid by wearing protective gloves.

Section 9. Physical & Chemical Properties

Appearance:	Monofilament, spool
Physical State:	Solid
Odor:	Odorless, plastic
pH:	Not available
Freezing point:	Not available
Melting point:	Not available

Initial Boiling Point/Boiling Ranges:	>250°C
Evapourating Rate:	Not available
Flammability (solid, gas):	Not available
Upper/Lower Flammability or explosive limits:	Not available
Vapour pressure:	Not available
Solubility:	Insoluble, soluble in petroleum solvents.
Vapour density (Air=1):	Not available
Relative density:	1.06
Partition coefficient of n-octanol/water:	Not available
Autoignition Temperature :	Not available
Decomposition Temperature:	Not available
Specific Gravity:	0.45
Molecular weight:	Not available

Section 10. Stability & Reactivity

Reactivity/Stability
This product is chemical stable under recommended storage, handling, use and temperature conditions.

Possibility of Hazardous Reaction
Will not polymerize.

Conditions to Avoid
Avoid contact with heat above 200°C, sparks, flame or other ignition sources.

Materials to Avoid
Strong oxidizing agents such as liquid chlorine and concentrated oxygen.

Hazardous Decomposition Products
Gas/steam, oxides of carbon, oxides of nitrogen, HCN, acrylonitrile, styrene monomer.

Section 11. Toxicological Information

Information on the likely routes of exposure

Inhalation:
No data available. Not expected to be harmful. Dust may cause irritation of the upper

respiratory tract.

Ingestion:
No data available. Not expected to be harmful.

Eye/Skin:
No data available. Not expected to be harmful. Molten material may cause burns.

Genotoxicity:
No data available. Not expected to be harmful.

Medical Conditions Aggravated by Exposure
No data available.

Section 12. Ecological Information

Ecotoxicity
No data available.

Persistence and Degradability
No data available.

Bioaccumulative Potential
No data available.

Mobility
No data available.

Section 13. Disposal Considerations

Disposal methods
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.

Section 14. Transport Information

US DOT Information

UN/NA number:	Not regulated for transport of dangerous goods
Proper shipping name:	None
Hazard class:	Not applicable
Packing group:	None

IMDG:

UN/Id No.:	Not regulated for transport of dangerous goods

Proper shipping name:	None
Hazard class:	Not applicable
Packing group:	None

ICAO/IATA:

UN-No.:	Not regulated for transport of dangerous goods
Proper shipping name:	None
Hazard Class:	Not applicable.
Packing group:	None

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313	Not listed
OSHA (29CFR 1910.1200):	Not listed

EC Classification: Not listed.

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Disclaimer

This SDS, based on current knowledge and experience, contains a general summary of hazards and is consistent with the information provided by the supplier. No liability can be assumed for the accuracy and completeness of this information.
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