

SAFETY DATA SHEET

According to Model Work Health and Safety Regulations and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

Issue date:25-01-2025

Revision date: 25-01-2025

SDS Record Number: CSSS-TCO-010-163964

Section 1—Identification

Product identifier	Fiberon™ PA612-ESD
Other means of identification	-
Recommended use	3D printing materials.
Restrictions on use	-
Details of manufacturer or importer	
Supplier(Manufacturer):	JF Polymers(Suzhou) Co., Ltd.
Address:	No. 7-1 Xinggang East Road, Changshu City, Jiangsu Province, China.
Contact person(E-mail):	Support@polymaker.com
Telephone:	+86-512-52058005
Fax:	+86-512-52096516
Emergency number:	Only available during office hours (9:00a.m.-17:30p.m.)
Importer	
Company name:	
Address:	
Contact person(E-mail):	
Telephone:	
Fax:	
Emergency number:	

Section 2—Hazard(s) identification

GHS classification:	
Physical hazards:	Not classified
Health hazards:	Not classified
Environmental hazards:	Not classified
GHS label elements:	
Hazard Pictograms :	No hazard pictogram is used.
Signal word:	No signal word is used.
Hazard statement:	Not applicable.
Precautionary statement:	
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.
Other hazards which do not result in classification:	Not applicable.

Section 3—Composition and information on ingredients

Substance/Mixture:		Article
Components	CAS No.	Percent (%)

Material name: Fiberon™ PA612-ESD

SDS AUSTRALIA

Version #: 1.0

Issue date: 15-01-2025.

Revision date: 15-01-2025.

1 / 6

Chopped Carbon Fiber	7440-44-0	5~13%
Polyolefin elastomer	108-31-6	3~8%
Multi-wall carbon nanotubes	308068-56-6	1~5%
Calcium chloride	10043-52-4	<4%

Section 4—First aid measures

Description of necessary first aid measures

Inhalation:	Remove person to fresh air and keep comfortable for breathing. Not required for normal conditions of use. If you feel unwell, seek medical advice.
Skin:	Not required for normal conditions of use. Wash skin with plenty of water.
Eye:	Not required for normal conditions of use. Rinse eyes with water as a precaution.
Ingestion:	Not required for normal conditions of use. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.
Symptoms caused by exposure	The product is not classified as harmful to human health effect.
Medical Attention and Special Treatment	Treat symptomatically.

Section 5—Firefighting measures

Suitable extinguishing media:	Water spray. Dry powder. Foam. Carbon dioxide (CO ₂).
Extinguishing media which must not be used for safety reasons:	Do not use a heavy water stream.
Specific hazards arising from the chemical	No specific fire or explosion hazard. In case of fire, the following can be released: carbon monoxide, carbon dioxide.
Special protective equipment and precautions for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.
HAZCHEM code	None

Section 6—Accidental release measures

Personal precautions:	Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Evacuate unnecessary personnel.
Containment procedures:	Avoid release to the environment. Prevent entry to sewers and public waters.
Methods for cleaning up:	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.

Section 7—Handling and storage

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8—Exposure controls and personal protection

Control parameters

Occupational exposure limits

			Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
Country	Substance	CAS No.	ppm	mg/m ³	ppm	mg/m ³	Note
Australia	Polyolefin elastomer	108-31-6	0.25	1	-	-	-

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment:

Eye and face protection

Safety glasses.

Skin protection

Wear suitable protective clothing.

Hand protection

Wear gloves if necessary.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear suitable protective workwear to prevent from thermal hazards.

Section 9—Physical and chemical properties

Appearance:

Physical state:

Solid

Form:

Solid

Color:

Black

Odor:

Odorless

Odour threshold:

Not available

PH:

Not available

Melting point/Freezing point:

200 °C

Initial boiling point and boiling range:

Not available

Flash point:

Not available

Evaporation rate:

Not available

Flammability (solid, gas) :

Non flammable.

Upper/lower flammability or explosive limits:

Not available

Vapor pressure:

Not available

Vapor density:

Not available

Density:

1.1

Bulk density:

Not available

Solubility (H₂O) :

Not available

Partition coefficient (n-octanol/water) :

Not available

Auto-ignition temperature:

Not available

Decomposition temperature:

Not available

Viscosity, dynamic:

Not available

Organic solvents:

Not available

Water:

Not available

VOC (EC) :

Not available

Solids contents:

Not available

Molecular Formula:

Not available

Molecular Weight:

Not available

Particle size:

Not available

Section 10—Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Incompatible materials. Keep away from heat, sparks and flame.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides.

Section 11—Toxicological information

Toxicological data:	
Acute toxicity:	
Calcium Chloride (10043-52-4)	
LD50(Oral, Rat):	2301 mg/kg
LD50(Dermal, Rat):	> 5000 mg/kg
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	No data available.
Serious eye damage/irritation:	No data available.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT- single exposure:	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.
Other information	This product has no known adverse effect on human health.
Information on routes of exposure	No data available.
Symptoms related to exposure	No data available.
Numerical measures of toxicity	No data available.
Immediate, delayed and chronic health effects from exposure	No data available.

Section 12—Ecological information

Ecotoxicity:

Calcium Chloride (10043-52-4)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	13400 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	1830 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	2900 mg/l	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13—Disposal considerations

Safe handling and disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Disposal of any contaminated packaging:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14—Transport information

ADG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	
Marine pollutant	No
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not regulated

Section 15—Regulatory information

Safety, health and environmental regulations

National regulations

Australian Inventory of Industrial Chemicals (AIIC)

Chopped Carbon Fiber	Listed
Calcium chloride	Listed
Polyolefin elastomer	Listed
Multi-wall carbon nanotubes	Not listed

Section 16—Any other relevant information

Indication of changes:	Version 1.0
Key abbreviations or acronyms used:	CAS: Chemical Abstracts Service LC50: Lethal Concentration 50 EC50: Concentration for 50% of maximal effect LD50: Lethal dose 50% MAC: maximum allowable concentration, (MAC) PC-TWA: permissible concentration-time weighted average PC-STEL: permissible concentration-short term exposure limit
Further information:	This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.
Notice to reader:	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Author: Hangzhou C&K Testing Technic Co., Ltd.	Website: www.cirs-ck.com Tel: 0571-89900715 Email: test@cirs-group.com

