

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

PolyFlex™ TPU90

Version 1.0

Issue date: 07/29/2020
Revision date: 07/29/202

Revision date: 07/29/2020 SDS record number: CSSS-TCO-010-132244

1. Product and Company Identification

Material namePolyFlex™ TPU90CAS #See section 3

Product code -

Product use 3D Printing Filament

Manufacturer/Supplier

Supplier(Manufacturer): JF Polymers (Suzhou) Co., Ltd.

Address: Building 6&7&11, No.2, Hai Cheng Road, Chang Shu Economic &Technological

Development Zone, 215513, People's Republic of China

Contact person(E-mail): zhenggang.cai@polymaker.com

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2. Hazards 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

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Other hazardsNot available.

3. Composition / Information on Ingredients

This product does not contain hazardous ingredients above cut-off value according to HCS2012.

4. First Aid Measures

First aid procedures

Eye contact None expected to require first aid measures. Flush with running water for at least

15 minutes. If irritation persists get medical attention.

Skin contactNone expected to require first aid measures. Wash thoroughly with soap and water.

Get medical attention in the unlikely event that irritation persists.

Inhalation None expected to require first aid measures. If breathed in, remove victim to fresh

air and keep at rest in a position comfortable for breathing. If you feel unwell, seek

medical attention.

Ingestion Immediate first aid is not likely to be required. A physician or poison control center

can be contacted for advice.

 Material name: PolyFlex™ TPU90
 SDS US

 Version #:1.0Revision date: 07-29-2020.
 Issue date: 07-29-2020.
 1 / 5

Notes to physician Treat symptoms.

5. Fire Fighting Measure

Flammable properties Not available.

Extinguishing media

Suitable extinguishing media Use extinguishers suitable for surrounding fire.

Unsuitable extinguishing media Not available.

Firefighting equipment/instructions Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products Carbon oxides.

6. Accidental Release Measures

Personal precautions Use personal protective equipment. Ensure adequate ventilation. Evacuate

personnel to safe areas.

Environmental precautions Avoid disposing into drainage/sewer system or directly into the aquatic

environment.

Methods for cleaning up Sweep up and shovel into suitable containers. Clean up affected area.

7. Handling and Storage

Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after Handling

handling.

Storage 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

SDS US

prevent leakage.

8. Exposure Controls / Personal Protection

Occupational exposure limits This product has no PEL, TLV, or other recommended exposure limit.

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

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment:

Eye / face protection No special protection required. Skin protection No special protection required. Respiratory protection No special protection required.

General hygiene Wash hands, forearms and face thoroughly after handling chemical products,

considerations before eating, smoking and using the lavatory and at the end of the working period.

9. Physical & Chemical Properties

Appearance

Solid Physical state Form Solid

Color Translucent Odor Odorless

Odor threshold Not available Not available На Not available Vapor pressure Vapor density Not available

Boiling point Not available Not available Melting point/Freezing point Insoluble

Solubility (water)

Material name: PolyFlex™ TPU90 Version #:1.0 Revision date: 07-29-2020. Issue date: 07-29-2020 2/5 **Relative Density** 1.18-1.23 Flash point Not available **Partition coefficient** Not available Flammability limits in air, upper, %by volume Not available Flammability limits in air, lower, % by volume Not available **Auto-ignition temperature** Not available VOC Not available Not available Percent volatile Molecular Formula Not available Molecular Weight Not available

Other data

Viscosity Not available

Dissociation constant Not available

10. Chemical Stability & Reactivity Information

Reactivity The substance is stable under normal storage and handling conditions.

Chemical stability Material is stable under normal conditions.

Conditions to avoidIncompatible materials.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition products Carbon oxides.

Possibility of hazardous reactions No hazardous reactions known.

11. Toxicological Information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): Not available LD50(Dermal, Rabbit): Not available LC50(Inhalation, Rat): Not available Not classified Skin corrosion/Irritation: Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Not classified Reproductive toxicity: Not classified STOT- single exposure: STOT-repeated exposure: Not classified **Aspiration hazard:** Not classified

12. Ecological Information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Material name: PolyFlex™ TPU90

Mobility in soil: Not available. Results of PBT&vPvB assessment: Not available. Other adverse effects: Not available.

13. Disposal Considerations

Disposal instructions Dispose contents/container accordance with in

local/regional/national/international regulations.

Since emptied containers may retain product residue, follow label warnings even Contaminated packaging

after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number Not regulated Proper shipping name Not regulated **Hazard class** Not regulated Not regulated Packing group

Environmental hazards No

IATA

UN number Not regulated UN proper shipping name Not regulated Transport hazard class(es) Not regulated Not regulated Packing group

No **Environmental hazards**

IMDG

UN number Not regulated UN proper shipping name Not regulated Transport hazard class(es) Not regulated Packing group Not regulated

Environmental hazards No

15. Regulatory Information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Material name: PolyFlex™ TPU90 SDS US Version #:1.0 Revision date: 07-29-2020. Issue date: 07-29-2020.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

16. Other Information

HMIS®ratings Health: 0

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1

Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and

experience currently available.

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Material name: PolyFlex™ TPU90 Version #:1.0 Revision date: 07-29-2020. Issue date: *