

# SAFETY DATA SHEET

# According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

Issue date: 18/07/2020 Revision date: 18/07/2020

SDS Record Number: CSSS-TCO-010-133599

## 1. Identification of the material and supplier

Material name: PolyFlex™ TPU90

Other Names: -

**Recommended use:** 3D Printing Filament.

Manufacturer:

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

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**Importer** 

Company name:

Address:

Contact person(E-mail):

Telephone:

Fax:

**Emergency number:** 

## 2. Hazards identification

GHS classification:

Physical hazards:Not classifiedHealth hazards:Not classifiedEnvironmental 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:
Response:
Not applicable.
Storage:
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

## 3. Composition/information on ingredients

Ingredient(s): This product does not contain hazardous ingredients above cut-off value according toodel Code of Practice for Labelling of Workplace Hazardous Chemicals (2015)

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#### 4. First aid measures

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration.

Skin: Wash off with soap and plenty of water.

Eye: Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Notes to physician:** Treat symptomatically.

## 5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Extinguishing media which must not be

used for safety reasons:

Not available.

Specific hazards arising from the

chemical: Fire Fighting: In case of fire, the following can be released: carbon monoxide, carbon dioxide.

Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

HAZCHEM code None.

## 6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid breathing dust. Refer to section 8 of SDS for

personal protection details.

**Containment procedures:** Do not let product enter drains.

Methods for cleaning up: Sweep up and shovel. Keep in suitable, closed and properly labelled containers for

disposal.

# 7. Handling and storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor. Keep away from sources of

ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated

clothing and protective equipment before entering eating areas.

**Storage:** 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.

### 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits No exposure limits noted for ingredient(s).

**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/face protection:** Wear safety glasses with side shields (or goggles).

**Skin protection:** Wear protective clothing.

**Respiratory protection:** Respiratory protection is not required. Where protection is desired, use multi-purpose

combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

**Hand protection:** For prolonged or repeated contact use protective gloves.

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## 9. Physical and chemical properties

Appearance:

Physical state: Solid
Form: Solid
Transle

Color: Translucent Odorless Odor: **Odour threshold:** Not available PH: Not available Melting point/Freezing point: Not available Initial boiling point and boiling range: Not available Flash point: Not available **Evaporation rate:** Not available Not available Flammability (solid, gas):

Upper/lower flammability or explosive

limits:

Vapor pressure:Not availableVapor density:Not availableRelative Density:1.18-1.23

Insoluble in water Solubility (H<sub>2</sub>O): Partition coefficient (n-octanol/water): Not available **Auto-ignition temperature:** Not available Not available **Decomposition temperature:** Viscosity, dynamic: Not available Organic solvents: Not available Water: Not available VOC (EC): Not available Solids contents: Not available Molecular Formula: Not available Not available **Molecular Weight:** 

# 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.

Not available

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Incompatible materials.
Incompatible materials: Strong oxidizing agents

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide.

# 11. Toxicological information

Toxicological data:

Acute toxicity:

Not available LD50(Oral, Rat): LD50(Dermal, Rabbit): Not available 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.

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Reproductive toxicity: No data available. No data available. STOT- single exposure: STOT-repeated exposure: No data available. **Aspiration hazard:** No data available.

Other information This product has no known adverse effect on human health.

## 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. Not available. Mobility in soil:

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.

## 13. Disposal considerations

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

Waste from residues/unused products: 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).

Contaminated packaging: 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.

## 14. Transport information

**ADG** 

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

**Environmental hazards** 

Marine pollutant Nο

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Transport in bulk according to Annex II Not regulated

of MARPOL 73/78 and the IBC Code:

## 15. Regulatory information

#### Safety, health and environmental regulations

#### **National regulations**

Australia Medicines & Poisons Appendix A/B/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/4/5/6/7/8/9/10

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)** 

Not listed.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

**Prohibited Carcinogenic Substances** 

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

**Restricted Carcinogenic Substances** 

Not regulated.

#### International regulations

**Stockholm Convention** 

Not applicable

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

# Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*		
Australia	Australian Inventory of Chemical Substances (AICS)	No		
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)			
China	Inventory of Existing Chemical Substances in China (IECSC)	No		
Europe	European Inventory of Existing Commercial/ Notified Chemical	No		
	Substances (EINECS) / (ELINCS)			
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No		
Korea	Existing Chemicals List (ECL)	No		
New Zealand	New Zealand Inventory	No		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No		

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

Indication of changes: Version 1.0

Training instructions: Not applicable.

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

the user.

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