

Version 1.0

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## 1. Identification

Product name	PolyDissolve™ S1	
Synonyms	-	
CAS #	See section 3	
Product code	-	
Product use	3D Printing Filament.	
Manufacturer/Supplier		
Supplier(Manufacturer):	JF Polymers (Suzhou) Co., Ltd.	
Address:	Haicheng Industrial Park, Bldg 7, Changshu Economic Development Zone (CEDZ), Changshu, Jiangsu Province 215513, China	
Contact person(E-mail):	zhenggang.cai@polymaker.com	
Telephone:	+86-512-52058005	
Fax:	-	
Emergency telephone Number:	+86-512-52058005	

## 2. Hazard(s) identification

### GHS classification

Physical hazards	Not classified	
Health hazards	Eye damage/irritation	Category 2A
Environmental hazards	Not classified	

### GHS label elements

#### Hazard Pictograms



Signal word	Warning
Hazard statement	Causes serious eye irritation

#### Precautionary statement

Prevention	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Not applicable.
Disposal	Not applicable.

## 3. Composition / information on ingredients

Components	CAS#	Percent
Poly(vinyl alcohol)	25213-24-5	> 80%

## 4. First-aid Measures

### First aid procedures

Eye contact	Immediately flush eyes with plenty of water. If easy to do, contact lenses should
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be removed during the flushing, by trained personnel. Occasionally hold the eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water. Get medical attention if irritation persists.

**Skin contact**

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

**Inhalation**

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Notes to physician**

Treat symptoms.

## 5. Fire-fighting measures

**Flammable properties**

Not available.

**Extinguishing media**

**Suitable extinguishing media**

Use extinguishing agents appropriate for surrounding fire.

**Unsuitable extinguishing media**

Not available.

**Firefighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

**Hazardous combustion products**

Oxides of carbon and other toxic fumes.

## 6. Accidental release measures

**Personal precautions**

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. For personal protection see section 8.

**Environmental precautions**

Do not let large amount of 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

**Handling**

Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials.

## 8. Exposure controls / personal protection

**Control parameters:**

**Occupational exposure limits**

**US. Workplace Environmental Exposure Level (WEEL) Guides**

**Appropriate engineering controls:**

Use in a well-ventilated area.

**Individual protection measures, such as personal protective equipment:**

**Eye / face protection**

Chemical safety goggles.

**Skin protection**

Wear suitable protective clothing to prevent skin exposure

**Respiratory protection**

Suitable respiratory protective device recommended.

**General hygiene considerations**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

## 9. Physical and chemical properties

### Appearance

Physical state	Solid
Form	Solid
Color	White translucent
Odor	Not available
Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Melting point/Freezing point	178°C
initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Relative density	1.08
Solubility (water)	Soluble
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Specific gravity	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available

## 10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Strong heat.
Incompatible materials	Avoid contact with other chemicals, oxidizing agents, strong alkalis and strong acids.
Hazardous decomposition products	Oxides of carbon and other toxic fumes.
Possibility of hazardous reactions	No dangerous 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
Skin corrosion/Irritation:	Not classified

<b>Serious eye damage/irritation:</b>	Causes serious eye irritation
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## 12. Ecological information

### Toxicity:

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

<b>Persistence and degradability:</b>	Not available.
<b>Bioaccumulative potential:</b>	Not available.
<b>Mobility in soil:</b>	Not available.
<b>Results of PBT&amp;vPvB assessment:</b>	Not available.
<b>Other adverse effects:</b>	No known significant effects or critical hazards.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

#### Basic shipping requirements:

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

### IATA

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

### IMDG

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	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)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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.

### 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, including date of preparation or last revision

### HMIS® ratings

Health: 1

Flammability: 1

Physical hazard: 0

### NFPA ratings

Health: 1

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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