

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: 09/07/2019

Revision date: 09/07/2019

SDS Record Number: CSSS-TCO-010-131602

1. Identification of the material and supplier

Material name: PolyDissolve™ S1
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
Contact person(E-mail): zhenggang.cai@polymaker.com
Telephone: 0086-512-52058005
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Emergency number: 0086-512-52058005
Importer:
Company name:
Address:
Contact person(E-mail):
Telephone:
Fax:
Emergency number:

2. Hazards identification

GHS classification:

Physical hazards: Not classified
Health hazards: Serious 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 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.
Specific hazards: Not applicable.

3. Composition/information on ingredients

Components	CAS No.	Percent
Poly(vinyl alcohol)	25213-24-5	> 80%
Poly(ethylene glycol)	25322-68-3	> 3%

4. First aid measures

Inhalation:	Remove to fresh air. Get medical attention for any breathing difficulty.
Skin:	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Keep warm and in a quiet place. Call a physician or poison control center immediately. Wash contaminated clothing before re-use.
Eye:	Immediately flush eyes with plenty of water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
Ingestion:	Call a physician or poison control centre immediately. Take victim immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.
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:	No specific fire or explosion hazard.
Fire Fighting:	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:	Avoid dust formation.
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:	Provide appropriate exhaust ventilation at places where dust is formed.
Storage:	Keep container closed in a cool, dry place.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Poly(ethylene glycol)(CAS# 25322-68-3)	TWA	1000 mg/m ³	Inhalable fraction.

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:	Safety goggles.
Skin protection:	Wear protective clothing.
Respiratory protection:	Use with adequate ventilation. In case of insufficient local exhaust ventilation, wear protective mask.
Hand protection:	Wear protective gloves.

9. Physical and chemical properties

Appearance:	
Physical state:	Solid
Form:	Solid
Color:	White translucent
Odor:	Not available
Odour threshold:	Not available
PH:	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
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Density:	1.08
Solubility (H₂O) :	Soluble in water
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

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.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides.

11. Toxicological information

Toxicological data:

Acute toxicity:

Calcium chloride (CAS: 10043-52-4)

LD50(Oral, Rat):	2301 mg/kg bw
LD50(Dermal, Rabbit):	> 5 000 mg/kg bw
LC50(Inhalation, Rat):	Not available

Skin corrosion/Irritation:	No data available.
Serious eye damage/irritation:	Causes serious eye irritation.
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	No data available.

12. Ecological information

Toxicity:

Calcium chloride (CAS: 10043-52-4)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	2400 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.

13. Disposal considerations

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

Material name: PolyDissolve™ S1
Version #: 1.0 Issue date: 09-07-2019. Revision date: 09-07-2019.

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

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 4/5/6/7/8/9/10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2/3

Poly(ethylene glycol)(CAS# 25322-68-3)

Australia National Pollutant Inventory (NPI): Threshold quantity

Calcium Chloride (CAS 10043-52-4) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

Calcium Chloride (CAS 10043-52-4) 1000 - 9999 TONNES See the regulation for additional information.

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)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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 SDS 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.

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