

# MSDS Report

No: JCT-MSDS20141015001

Date: 2014/10/15

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**Client's Name** : ZHEJIANG FLASHFORGE 3D TECHNOLOGY CO., LTD.  
**Client's Address** : NO.518, XIANYUAN ROAD, WUCHENG DISTRICT, JINHUA CITY, ZHEJIANG PROVINCE, CHINA.  
**Product Name** : 3D PRINTING SUPPLIES  
**Job Receiving Date** : 2014/10/10  
**Preparation Period** : 2014/10/10 - 2014/10/15  
**Service Requested** : Material Safety Data Sheet (MSDS)  
**Summary** : As per request, the contents and formats of the MSDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200 (g). For details, please refer to the attached Material Safety Data Sheet (MSDS).

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Signed for and on behalf of  
JCT Ltd.



## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** 3D Printing supplies

**Product number:** /

### 1.2 Application of the substance / the preparation

Used for 3D printing.

### 1.3 Details of the supplier of the material safety data sheet

**Manufacturer/Supplier:** Zhejiang Flashforge 3D Technology Co., Ltd..

No.518, Xianyuan Road, Wucheng District, Jinhua City, Zhejiang Province, China.

Tel: +86-579-82273989

Fax: +86-579-82273989

E-mail: pjy@sz3dp.com

### 1.4 Emergency telephone number:

**Emergency Phone #:** +86-(0)13033666990

### 1.5 Reference Number: JCT-MSDS20141015001

## Section 2: Composition/information on ingredients

### 2.1 Emergency Overview

#### OSHA Hazards

No known OSHA hazards.

### 2.2 GHS Label elements, including precautionary statements

#### Labelling

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Precautionary statement(s)** Void

### 2.3 NFPA ratings (scale 0 - 4)

**Health hazard:** 0

**Fire:** 1

**Reactivity Hazard:** 0

**Special hazard.:**

### 2.4 HMIS-ratings (scale 0 - 4)

**Health hazard:** 0

**Chronic Health Hazard:** \*

**Flammability:** 1

**Physical hazards:** 0

### 2.5 Potential Health Effects

**Inhalation:** No effect under routine handling and use.

**Skin:** No effect under routine handling and use.

**Eyes:** No effect under routine handling and use.

**Ingestion:** No effect under routine handling and use.

## 2.3 Other hazard

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

## Section 3: Hazards identification

### 3.1 Substances

**Chemical characterization:**

**Formula:** Not applicable

**Molecular Weight:** Not applicable

**Description**

Mixture of substances listed below with nonhazardous additions.

Components		Concentration(%)
CAS: 26100-51-6	Polylactic acid	95
CAS: /	Thermoplastic elastomer SDS	4
CAS: 8042-47-5	White mineral oil	0.5
CAS: /	Other	0.5

## Section 4: First aid measures

### 4.1 Description of first aid measures

**After inhalation:**

Seek fresh air.

**After skin contact:**

First aid is not normally required. If irritation is experienced, flush with water. If irritation persists, get medical attention.

**After eye contact:**

First aid is not normally required. Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

**After swallowing:**

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

## Section 5: Firefighting measures

### 5.1 Suitable extinguishing agents:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Protective equipment:

Wear self-contained breathing apparatus and full protective gear if fully involved in a fire.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use the personal protective equipment. Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not allow to enter sewers/ surface water.

### 6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and storage

### 7.1 Handling

Keep away from heat and flame.

### 7.2 Storage

Keep in a cool, well ventilated place. Keep away from children.

## Section 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

### 8.1 Control parameters

**DNELs:** Not available

**PNECs:** Not available

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

Based on the composition shown in section 2, the following measures are suggested for occupational safety measure.

#### Personal protective equipment

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

#### Breathing equipment:

None needed under normal use.

#### Protection of hands:

None needed under normal use.

#### Eye protection:

None needed under normal use.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

**Form:** Solid

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**Colour:** Black, white, blue, green, yellow, red, transparent

**Odour:** Odorless

**pH-value:** 7

**Change in condition:**

**Melting point/Melting range:** >176 °C

**Boiling point/Boiling range:** >176 °C

**Freezing point:** <0 °C

**Flash point:** Not applicable(no flash point)

**Flammability (solid, gaseous):** Slight

**Ignition temperature:** >380 °C

**Auto igniting:** Product is not selfigniting under normal condition.

**Danger of explosion:** Product does not present an explosion hazard under normal condition.

**Explosion limits:**

**Lower:** Not applicable

**Upper:** Not applicable

**Vapour pressure:** : Not applicable

**Density:** 1.25-1.28 g/cm<sup>3</sup>

**Evaporation rate:** Not applicable

**Solubility in / Miscibility with**

**Water:** Insoluble in water

**Viscosity:**

**Dynamic:** Not applicable

## Section 10: Stability and reactivity

### 10.1 Chemical stability

Stable at normal temperatures and storage conditions

### 10.2 Thermal decomposition

No decomposition if used according to specifications.

### 10.3 Incompatible materials

Strong oxidizing agents.

### 10.4 Conditions to be avoided

Exposure to high temperatures and direct flame.

### 10.5 Possibility of hazardous reactions

No dangerous reactions known.

### 10.6 Hazardous decomposition products

None known.

## Section 11: Toxicological information

### 11.1 Acute toxicity:

There is no toxicological data available.

**Primary irritant effect:**

**Sensitization:** Sensitization impossible through skin contact.

**Additional toxicological information:**

No further relevant information available.

**Section 12: Ecological information****12.1 Toxicity**

Not available.

**12.2 Persistence and degradability**

Degradation products and the original product are non-toxic.

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

Not available.

**12.5 General notes**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Section 13: Disposal considerations****13.1 Waste treatment methods****Recommendation:**

Follow all local, state, and federal regulations for disposal of waste chemicals.

**13.2 Uncleaned packaging:****Recommendation:**

Follow all local, state, and federal regulations for disposal of waste chemicals.

**Section 14: Transport information****14.1 UN-Number**

**DOT:** Not regulated

**ADR:** Not regulated

**IMDG:** Not regulated

**IATA:** Not regulated

**14.2 UN proper shipping name**

**DOT:** Not dangerous goods for transport.

**ADR:** Not dangerous goods for transport.

**IMDG:** Not dangerous goods for transport.

**IATA:** Not dangerous goods for transport.

**14.3 Transport hazard class(es)**

**DOT:** Not regulated

<p><b>ADR:</b> Not regulated  <b>IMDG:</b> Not regulated  <b>IATA:</b> Not regulated</p> <p><b>14.4 Packing group</b></p> <p><b>DOT:</b> Not regulated  <b>ADR:</b> Not regulated  <b>IMDG:</b> Not regulated  <b>IATA:</b> Not regulated</p>
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## Section 15: Regulatory information

<b>Sara</b>
<b>Section 355 (extremely hazardous substances)</b>
None of the ingredients is listed.
<b>Section 313 (Specific toxic chemical listings)</b>
None of the ingredients is listed.
<b>TSCA (Toxic Substances Control Act)</b>
None of the ingredients is listed.
<b>Proposition 65</b>
<b>Chemicals known to cause cancer</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for females</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for males</b>
None of the ingredients is listed.
<b>Chemicals known to cause developmental toxicity</b>
None of the ingredients is listed.
<b>Cancerogenity categories</b>
<b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
<b>TLV (Threshold Limit Value established by ACGIH)</b>
None of the ingredients is listed.
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

## Section 16: Other information

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*The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g)*

### *DISCLAIMER OF LIABILITY*

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