



**Safety Data Sheet**  
 according to Regulation (EC) No 1907/2006 and 1272/2008,  
 Hazard Communication Standard 29 CFR 1910 (USA),  
 WHS Regulations Australia,  
 JIS Z 7253 (2012) Japan

**VisiJet® S100**

Revision Date: February 13, 2015

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**1.1 Identification of the substance or preparation: VisiJet® S100**

**1.2 Use of the substance / preparation:** For use with ProJet® 3000 systems

**1.3 Company/undertaking identification:**

|  |  |   |  |
|--|--|---|--|
| 3D Systems, Inc.<br>333 Three D Systems Circle<br>Rock Hill, South Carolina<br>U.S.A.<br>Phone: 803.326.3900 or<br>Toll-free Phone:<br>800.793.3669<br>e-mail:<br>moreinfo@3dsystems.com<br>Chemical Emergency:<br>800.424.9300 – Chemtrec | 3D Systems Europe Ltd.<br>Mark House, Mark Road<br>Hemel Hempstead<br>Herts HP2 7<br>United Kingdom<br>Phone: +44 144-2282600<br>e-mail:<br>moreinfo@3dsystems.com<br>Chemical Emergency:<br>+1 703.527.3887 -<br>Chemtrec | 3D Systems / Australia<br>5 Lynch Street<br>Hawthorn, VIC 3122<br>+1 03 9819-4422<br>e-mail:<br>moreinfo@3dsystems.com<br>Chemical Emergency:<br>+(61) 29037.2994 – Aus<br>Chemtrec | 3D Systems Japan K.K.<br>Ebisu Garden Place Tower 27F<br>4-20-3, Ebisu, Shibuya-ku, Tokyo<br>50-6027 Japan<br>Telephone No. +81-3-5798-2500<br>e-mail:<br>moreinfo@3dsystems.com<br>Chemical Emergency<br>+(81)-345209637 – Chemtrec |
|--|--|---|--|

**2. HAZARDS IDENTIFICATION**

**2.1 Classification:**

**Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 2012, Australian Dangerous Goods Code**

**2.2 Information pertaining to special dangers for human and environment:**

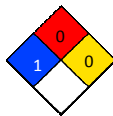
Skin: Not expected to be absorbed through the skin. Wax, when heated, can cause skin burn.  
 Ingestion: Ingestion may cause nausea, diarrhea and/or stomach pain.

**2.3 Label Elements**

**Regulation (EC) No, 1272/2008:**

**Hazard pictograms and signal word:** None

**Hazard statements:** None



NFPA Ratings  
 0 = Minimal  
 1 = Slight  
 2 = Moderate  
 3 = Serious  
 4 = Severe

**Hazardous Materials Identification System (HMIS):**

(Degree of hazard: 0 = low, 4 = extreme);

Health **1**  
 Flammability **0**  
 Physical Hazards **0**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Preparation related information**

**Description:** Organic mixture

**3.2 Dangerous components**

| Chemical name    | CAS-No   | EC-No     | %         | Classification            |                                   |
|------------------|----------|-----------|-----------|---------------------------|-----------------------------------|
|                  |          |           |           | Regulation (EC) 1272/2008 | Regulation 67/548/EEC, 1999/45/EC |
| Hydroxylated Wax | 112-92-5 | 204-017-6 | 60 - 100% | -                         | -                                 |



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#### 4. FIRST AID MEASURES

##### 4.1 General information:

**4.2 In case of inhalation:** Move affected person to fresh air. If respiratory irritation occurs, if breathing becomes difficult seek medical attention immediately.

**4.3 In case of skin contact:** If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Use mineral oil to loosen the material. Seek medical attention for burns.

**4.4 In case of eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

**4.5 In case of ingestion:** Ingestion is unlikely. If ingested, drink plenty of water and seek immediate medical attention. Do not induce vomiting.

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#### 5. FIRE-FIGHTING MEASURES

**5.1 Suitable extinguishing media:** Water mist, dry chemical, carbon dioxide, or appropriate foam.

**5.2 Extinguishing media which must not be used for safety reasons: -**

**5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Thermal decomposition products can include CO<sub>2</sub>, CO and smoke.

**5.4 Special protective equipment for fire-fighters:** Use self-contained breathing apparatus. Use water spray to keep fire-exposed containers cool. Dust is not expected to be generated in the event of a fire.

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#### 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions:** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing, including a ground strap, during clean up

**6.2 Environmental precautions:** Stop the flow of material, if this is without risk. Ventilate contaminated area. Eliminate sources of ignition. Avoid the generation of dusts during clean up.

**6.3 Methods for cleaning up:** If material is molten, allow it to freeze before clean up. Scrape the material loose from the floor if necessary and vacuum or sweep the solid material into a closed container. Use internally and externally explosion-proof vacuum equipment with appropriate electrical classification per National Electrical Code, Article 502 or use non-sparking tools. Avoid the generation of dusts during clean up. Place material in an appropriate container for disposal.

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#### 7. HANDLING AND STORAGE

**7.1 Handling:** No special measures necessary in normal use of product.

**7.2 Storage:** Keep this material in a cool (<35 °C (95 °F)), dry, well-ventilated place.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### 8.1 Exposure limit values:

General product information: No occupational exposure limits (PEL/TWA) have been established for this product.

##### 8.2 Exposure controls

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.



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### Personal protection equipment:

**Respiratory protection:** If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified organic vapor respiratory protection must be provided (e.g. 3M 6001 organic vapor cartridge with half facepiece 3M 6000 or 3M 7000).

**Hand protection:** Use impervious nitrile gloves.

**Eye protection:** Wear chemical goggles

**Body protection:** Use apron.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance:

**Physical state:** Solid

**Colour:** White

**Odour:** Mild

### 9.2 Important health, safety and environmental information

#### Safety relevant basic data

|   |            |
|---|------------|
| <b>pH (20 °C):</b>                      | NA         |
| <b>Melting point/range (°C):</b>        | 55-65 °C   |
| <b>Boiling point/range (°C):</b>        | NA         |
| <b>Flash point (°C):</b>                | 185 °C     |
| <b>Ignition temperature (°C):</b>       | NA         |
| <b>Vapour pressure (°C):</b>            | NA         |
| <b>Density (g/cm<sup>3</sup>):</b>      | 0.85-0.91  |
| <b>Bulk density (kg/m<sup>3</sup>):</b> | NA         |
| <b>Water solubility (20 °C in g/l):</b> | insoluble  |
| <b>Partition coefficient:</b>           | NA         |
| <b>n-Octanol/Water (log Po/w):</b>      | NA         |
| <b>Viscosity, dynamic (mPa s):</b>      | 13 (80 °C) |
| <b>Dust explosion hazard:</b>           | NA         |
| <b>Explosion limits:</b>                | NA         |

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to avoid: -

**10.2 Materials to avoid:** Avoid strong oxidizing agents.

**10.3 Hazardous decomposition products:** Carbon dioxide, carbon monoxide and other toxic fumes can be released at high temperatures or upon burning.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Toxicokinetics, metabolism and distribution:** NA

### 11.2 Acute effects (toxicity tests)

| Component        | LD <sub>50</sub> Oral | LD <sub>50</sub> Dermal |
|------------------|-----------------------|-------------------------|
| Hydroxylated Wax | 20`000 mg/kg (rats)   | NA                      |

**Irritant and corrosive effects:** NA

**Irritation to respiratory tract:** NA

**Sensitisation:** NA

### 11.3 Experiences made in practice

Observations relevant to classification: -

Other observations:-

### 11.4 General remarks:

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP



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### 12. Ecological information

**12.1 Ecotoxicity:** The aquatic toxicity of the product is unknown; however based on the components, it is predicted that the product is not harmful to the aquatic environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity:

| Component        | Data   |
|------------------|--|
| Hydroxylated Wax | LC50 (48h)- 1700 mg/l (daphnia)<br>EC50 (96h) – 235 mg/l (Scenedesmus subspicatus (algae)) |

**12.2 Mobility:** No information available for product.

**12.3 Persistence and degradability:** No information available for product.

**12.4 Results of PBT assessment:** No information available for product

**12.5 Other adverse effects:** No information available for product

**12.6 Further ecological information:** The ecological assessment of this material is based on an evaluation of its components. This product is classified as not dangerous to the environment.

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### 13. DISPOSAL CONSIDERATIONS

**13.1 Appropriate disposal / Product:** Avoid disposal. Attempt to utilize preparation completely. Prior to disposal of unused preparation, consult an approved waste disposal operative to ensure regulatory compliance.

**13.2 Waste codes / waste designations according to EWC / AVV:**

**13.3 Appropriate packaging:**

**13.4 Additional information:**

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### 14. TRANSPORT INFORMATION

**14.1 Land transport (ADR/RID/GGVSE):** Not Regulated

Official transport designation:

Class:

Classification Code:

UN-No.:

Packing group:

Hazard label:

Tunnel restriction code:

Special provisions:

**14.2 Sea transport (IMDG-Code/GGVSee):** Not Regulated

Proper Shipping Name:

Class:

UN-No.:

Packing group:

EmS:

Marine Pollutant:

Special provisions:

**14.3 Air transport (ICAO-IATA/DGR):** Not Regulated

Proper Shipping Name:

Class:

UN-No.:

Packing group:

Special provisions:



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**15. REGULATORY INFORMATION**

**15.1 EU regulations**

EINEC/ELINCS/NLP: All materials are listed

REACH Annex XVII: None listed

**15.2 US FEDERAL**

TSCA: All materials are listed on the TSCA Inventory or are not subject to TSCA requirements:

California Proposition 65: This product does not contain chemicals which are known to the state of California to cause cancer, birth, or any other reproductive defects.

**15.3 Australian regulations**

SUSDP, Industrial Chemicals Act 1989:

Australian Inventory of Chemical Substances, AICS: Listed

**15.4 Japanese regulations**

|  |                      |
|--|----------------------|
| Chemical Risk Information platform (CHRIP):                            | Listed               |
| Industrial Health and Safety Law                                       | not applicable       |
| Hazardous material   | not applicable       |
| Organic solvent poison prevention rule                                 | not applicable       |
| Ordinance on prevention of hazard due to specified chemical substances | not applicable       |
| Lead Poisoning Prevention Rule   | not applicable       |
| Poison and Deleterious Substance Control law                           | not applicable       |
| PRTR and Promotion of Chemical Management law (PRTR Law)               | no listed components |
| Fire Services Act  | not applicable       |
| Explosives Law   | not applicable       |
| High pressure gas safety law   | not applicable       |
| Export Trade Control Order   | not applicable       |
| Waste Disposal and Public Cleaning Law                                 | not applicable       |

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**16. OTHER INFORMATION**

SDS Creation Date: .....

SDS Revision #:.....03-A

SDS Revision Date: .....February 13, 2015

Reason for Revision:.....GHS Conformance

[www.3dsystems.com](http://www.3dsystems.com)

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