

## Safety Data Sheet

### VisiJet® M2 Sup

Revision Date: September 28, 2021

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

##### 1.1 Identification of the substance or preparation: VisiJet® M2 Sup

**1.2 Use of the substance / preparation:** For use with ProJet® 2500 systems

##### 1.3 Company/undertaking identification:

3D Systems, Inc.  
333 Three D Systems Circle  
Rock Hill, South Carolina U.S.A.  
Phone: 803.326.3900 or  
Toll-free Phone: 800.793.3669  
e-mail: moreinfo@3dsystems.com

3D Systems Europe Ltd.  
200 Maylands Avenue  
Hemel Hempstead  
Herts, HP2 7TG United Kingdom  
Phone: +44 144-2282600  
e-mail: moreinfo@3dsystems.com

3D Systems Asia-Pacific  
30-32 Ceylon St  
Nunawading VIC 3131  
Australia  
+61 3 9819 4422  
e-mail: moreinfo@3dsystems.com

##### 1.4. Emergency telephone number:

U.S.A.:  
Chemical Emergency:  
800.424.9300 – Chemtrec

Europe:  
Chemical Emergency:  
+1 703.527.3887 - Chemtrec

Australia:  
Chemical Emergency:  
+(61) 29037.2994 – Aus Chemtrec

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#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification

**GHS : Regulation (EC) No. 1272/2008, 29 CFR 1910:**

##### Physical Hazard:

None

##### Health Hazard:

None

##### Environmental Hazard:

Chronic aquatic toxicity	Category 3	H412
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##### 2.2 Label Elements

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

**Hazard pictograms and signal word:** None

**Hazard statements:** None

**Hazard determining components of labelling:** None

##### Hazard statements:

H412: Harmful to aquatic life with long-lasting effect

##### Precautionary statements:

##### Prevention:

P273: Avoid release to the environment.

##### Response:

None

##### Storage:

None

##### Disposal:

P501: Dispose of contents/container in accordance with local/state/regional regulations.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Preparation related information

**Description:** Organic mixture

#### 3.2 Mixtures

Chemical name	CAS-No	EC-No	%	Classification
				Regulation (EC) 1272/2008
Hydroxylated Wax	112-92-5	204-017-6	60 - 90	Not Classified
Butylated additive	Proprietary	Proprietary	1-10	Aquatic Chronic Category 1 - H410

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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.

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

## 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

**Technical measures to prevent exposure:** Use local exhaust ventilation.

**Instructual measures to prevent exposure:** When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

### Personal protection equipment:

**Respiratory protection:** If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided (e.g. 3M 6000 with organic vapor cartridge A2 or half mask 3M 4251).

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

**Eye protection:** Wear chemical goggles

**Body protection:** Use apron.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	-
<b>Physical state</b>	Solid
<b>Form</b>	Not available
<b>Color</b>	White
<b>Odor</b>	Mild
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting point/freezing point (°C)</b>	55-65
<b>Initial boiling point and boiling range (°C)</b>	Not available
<b>Flash point (°C)</b>	185 (COC)
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Relative density (g/cm<sup>3</sup>)</b>	0.85-0.91
<b>Upper/lower flammability or explosive limits</b>	-
<b>Flammability limit - lower (%)</b>	Not available
<b>Flammability limit - upper (%)</b>	Not available
<b>Explosive limit - lower (%)</b>	Not available
<b>Explosive limit - upper (%)</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Solubility(ies)</b>	-
<b>Solubility (water)</b>	insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature (°C)</b>	Not available
<b>Viscosity (cPs)</b>	13 (80°C)
<b>Other information</b>	-
<b>Oxidizing properties</b>	Not available
<b>VOC (g/L)</b>	69.3 (EPA Method 24)

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#### 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.

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#### 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) 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:** Not Applicable

**13.3 Appropriate packaging:** None

**13.4 Additional information:** None

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#### 14. TRANSPORT INFORMATION

- 14.1 Land transport (ADR/RID/GGVSE):** Not Regulated
- 14.2 Sea transport (IMDG-Code/GGVSee):** Not Regulated
- 14.3 Air transport (ICAO-IATA/DGR):** Not Regulated
- 14.4 US Department of Transportation (DOT):** Not Regulated

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#### 15. REGULATORY INFORMATION

##### 15.1. European Union Regulations:

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended.**

Not listed

**National regulations:**

**German Water Hazard Class (WGK):** WGK1 (low hazard to waters)

##### 15.2. Chemical safety assessment

**Chemical Safety Report** - No information available

##### 15.3 US FEDERAL

**TSCA:** All components listed or exempt from listing.

**TSCA - 5(a) Significant New Use Rule List of Chemicals:** None

**US. Toxic Substances Control Act (TSCA) Section 12(b):** None

**SARA 302 EHS List (40 CFR 355 Appendix A):** None listed

**SARA 313 (40 CFR 372.65):** None listed

**CERCLA (40 CFR 302.4):** None listed

**SARA 302 EHS List (40 CFR 355 Appendix A):** None listed

**SARA 313 (40 CFR 372.65):** None listed

**CERCLA (40 CFR 302.4):** None listed

**15.4 International regulations:** All components of this product are registered or exempt from registration according to chemical regulations in Australia, Canada, China, European Union, Japan, South Korea, New Zealand, Philippines, Switzerland, Taiwan and United States.

##### 15.5 South Korea regulations

All chemical ingredients in this formulation are registered or exempt from registration under South Korean chemical regulations.

**A. Restrictions under the Industrial Safety and Health Law**

Harmful Substances Requiring Permission for Manufacture or Use: Not regulated.

Controlled Hazardous Substances: Not regulated.

Harmful Substances Requiring Special Medical Examination: Not regulated.

Workplace Environmental Monitoring Harmful Materials: Not regulated.

Occupational Exposure Limit: Not regulated.

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#### **B. Restrictions under the Chemicals Control Law (Previously Toxic Chemicals Control Law)**

Accidental Release Prevention Substances: Not regulated.

Observational Chemicals: Not regulated.

#### **C. Restrictions under the Dangerous Substance Safety Management Act**

Not regulated

#### **D. Restrictions under the Wastes Control Act**

Halogenated Materials in Waste Organic Solvents: Not regulated.

Hazardous Substances: Not regulated.

#### **E. Restrictions under other foreign or domestic laws**

Clean Air Conservation Act

Air Pollutants: Not regulated.

Specific Air Pollutants: Not regulated.

Act on the Registration and Evaluation of Chemicals

Banned Toxic Chemicals: Not regulated.

Designated Existing Chemicals Subject to Registration (PEC) (MoE No. 2015-92): Not listed.

Restricted Chemical Substances: Not regulated.

Toxic Chemicals: Not regulated

#### **15.6 Switzerland Regulations:**

Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV):

Not listed

#### **SR814.018 Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) of 12 November 1997:**

Switzerland VOC incentive tax – Visijet M2 SUP does not contain VOCs which are subject for taxation.

#### **15.7 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

not applicable

chemical substances

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

applicable. Before disposal, consult an approved waste disposal operative to ensure regulatory compliance.

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## **16. OTHER INFORMATION**

### **16.1 Relevant Hazard Statements (number and full text) referred to in sections 2 and 3 (according to (EC) No. 1272/2008):**

H410: Very toxic to aquatic life with long-lasting effects

H412: Harmful to aquatic life with long-lasting effects

SDS Creation Date: .....December 30, 2015

SDS Revision #: .....-07-A

SDS Revision Date: .....September 28, 2021

Reason for Revision: .....Update section 15.



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