

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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

1.1 Identification of the substance or preparation: **VisiJet S500**

1.2 Use of the substance / preparation: For use with ProJet® 5500 X and 5600 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

2. HAZARDS IDENTIFICATION

2.1 Classification

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

Physical Hazard: None

Health Hazard: None

Environmental Hazard:

Aquatic environment-long-term hazard	Category 3	H412
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2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word: None

Hazard determining components of labelling: None

Hazard statements:

H412: Harmful to aquatic life with long lasting effects

Precautionary statements:

P273: Avoid release to the environment.

Prevention:

None

Response:

None

Storage:

None

Disposal:

None

Supplemental information

Safety:

Over exposure may result in skin and eye irritation.
Do not eat, drink or smoke when using this product.
Use with local exhaust ventilation

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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
Hydroxylated Wax	112-92-5	204-017-6	60-100%	Not classified

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.

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 CO₂, 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.

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.

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.
Storage class Storage class: LGK 13

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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 safety glasses or chemical goggles.

Body protection: Use apron and closed shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-
Physical state	Solid
Form	Not available
Color	White
Odor	Mild
Odor threshold	Not available
pH	Not available
Melting point/freezing point (°C)	55-65
Initial boiling point and boiling range (°C)	Not available
Flash point (°C)	185°C (COC)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Relative density (g/cm³)	0.85-0.91
Upper/lower flammability or explosive limits	-
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	Not available
Vapor density	Not available
Solubility(ies)	-
Solubility (water)	insoluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature (°C)	Not available
Decomposition temperature (°C)	Not available
Viscosity (cPs)	13 (80°C)
Other information	-
Oxidizing properties	Not available
VOC (g/L)	Not available

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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 ₅₀ Oral	LD ₅₀ 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

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.

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: None

13.4 Additional information:

European Waste Catalogue: 08 02 01

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

14. TRANSPORT INFORMATION

14.1 DOT:

UN-No.: Not Regulated
UN Proper Shipping Name:
Transport hazard class(es)
Class: Not Available
Subsidiary risk: -
Packing group: Not available
Environmental Hazard:
Marine pollutant: no
Special Precautions for user: NA

14.3 IATA:

UN-No.: Not Regulated
UN Proper Shipping Name:
Transport hazard class(es)
Class: Not Available
Subsidiary risk: -
Packing group: Not available
Environmental Hazard: No
Special Precautions for user: Not Available

14.2 IMDG:

UN-No.: Not Regulated
UN Proper Shipping Name:
Transport hazard class(es)
Class: Not Available
Subsidiary risk: -
Packing group: Not available
Environmental Hazard:
Marine pollutant: No
EmS: Not Available

14.1 ADR:

UN-No.: Not Regulated
UN Proper Shipping Name:
Transport hazard class(es)
Class: Not Available
Subsidiary risk: -
Hazard No (ADR): Not available
Tunnel restriction code: Not available
Packing group: Not available
Environmental Hazard: No
Special Precautions for user: Not available

Further information: Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

15. REGULATORY INFORMATION

15.1. European Union Regulation:

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

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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 on Active TSCA Inventory 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

California Prop. 65 Components: No listed ingredients

15.4 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.

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

Safety Data Sheet

VisiJet® S500

Revision Date: October 04, 2021

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

16. OTHER INFORMATION

SDS Creation Date:October 18, 2013

SDS Revision #:.....05-A

SDS Revision Date:October 04, 2021

Reason for Revision:.....Update header, section 1, 2, 3, 7, 8, 9, 13, 14, 15.

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