

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product/Trade Name: VisiJet® S100 Model Material**

Chemical Family: Organic mixture
Product Use: For use in the InVision™ 3-D printer and the InVision™ HR 3-D printer

Manufacturer:



	In the U.S./Canada	In Europe
Manufacturer Contact	3D Systems, Inc. 26081 Avenue Hall Valencia, CA 91355 U.S.A.	3D Systems GmbH Guerickeweg 9 Darmstadt, Germany
For Information:	Phone: 970.257.4700 or Toll-free Phone: 800.793.3669	Phone: +0049-6151-3570 Fax: +0049-6151-357111
Emergency:	800.424.9300 - Chemtrec	703.527.3887 - Chemtrec (U.S.)

Hazardous Materials Identification System (HMIS):

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

Health **1**
Flammability **0**
Physical Hazards **0** (None)

National Fire Protection Association (NFPA):

Mixture, Not Rated

II. COMPOSITION INFORMATION

Chemical Identity	Concentration	EU Classification	
		Symbol	R-Phrase
Hydroxylated wax	60 – 100%	Xi	36

OSHA Classification: Eye irritant**III. HAZARDS IDENTIFICATION****MAY CAUSE EYE IRRITATION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.****FOR INDUSTRIAL USE ONLY.****Potential Health Effects**

EYE: May cause irritation consisting of reversible redness, swelling and pain.
SKIN: Not expected to be absorbed through the skin. Wax, when heated, can cause skin burn.
INHALATION: Inhalation of fumes could cause respiratory tract irritation.
INGESTION: Ingestion may cause nausea, diarrhea and/or stomach pain.
CHRONIC: Frequent and persistent contact with the skin or eyes may cause irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None known or expected.

POTENTIAL ENVIRONMENTAL EFFECTS

None known or expected.

IV. FIRST AID MEASURES

Skin contact: Molten thermopolymer is not expected to be absorbed through the skin. If 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.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

Inhalation: Move affected person to fresh air. In case of unconsciousness, rest in stable lateral position (recovery position). In case of asphyxia, initiate artificial respiration immediately. Get medical attention immediately.

Ingestion: Ingestion is unlikely. Affected person should drink 500 – 800 ml of water, if possible with suspended activated carbon for medical use. In case of spontaneous vomiting, be sure that vomitus can freely drain because of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in case of unconsciousness or convulsions. Seek medical attention.

Notes to Physician: Treat symptomatically and supportively.

V. FIRE FIGHTING MEASURES

Unusual Fire & Explosion Hazards: None known. As with most solid or particulate organic materials, extremely high dust concentration in air may result in a potential explosion hazard. Good housekeeping will minimize significant particulate accumulation.

Extinguishing media: Use water mist, dry chemical, carbon dioxide, or appropriate foam.

Protective equipment: Use self-contained breathing apparatus. Keep fire-exposed containers cool using water spray.

VI. ACCIDENTAL RELEASE MEASURES

If melted or heated wax is spilled, wait for material to solidify. Vacuum or sweep up spilled solid and place in appropriate disposal container. Use proper personal protective equipment as indicated in Section VIII.

VII. HANDLING AND STORAGE

No special measures necessary in normal use of product. Avoid storing above 35°C (95°F).

VIII. EXPOSURE CONTROLS, PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL	International OELs
All components	None	None	None

Respiratory protection:..... Not required in normal use.

Ventilation: General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

Eye protection: Wear suitable eye/face protection.

Skin protection: Wear suitable protective clothing and gloves.

Other protective equipment: Eye wash and safety shower should be available in the immediate work area.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White solid

Melting point:..... 55 - 65°C (131 - 149°F)

Solubility in water: Insoluble at 20°C (68°F)

Vapor pressure: No data

Partition coefficient: No data

Explosive properties:..... Not expected to be explosive

Odor: None

Boiling point: No data

Density: 0.91 g/cm³ at 25°C

Flashpoint: >207°C (405°F)

Ignition: No data

pH-value: Not applicable
Viscosity: 10 - 12 mPa*s @ 80°C

X. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal use of product.
Materials to avoid: Strong oxidizing agents.
Hazardous decomposition products:.... Burning may release oxides of carbon and other toxic gases or vapors.
Hazardous polymerization:..... Will not occur.

XI. TOXICOLOGICAL INFORMATION

For Product		For Components:
		Hydroxylated wax
Oral LD ₅₀	> 2 g/kg (rats)	20 g/Kg (rat)
Dermal LD ₅₀	> 2 g/kg	No data
Inhalation LC ₅₀	Slightly toxic	No data
Irritation	Mild eye and skin irritant	Mild eye and skin irritant
Sensitization	Not expected to be sensitizing	No data

Subchronic/Chronic

Toxicity Data: No information

Mutagenicity: No information for this product.

Carcinogenicity: This product and its components are not known to be carcinogenic.

Reproductive, Teratogenicity,
Or Developmental Effects: The product is not known or reported to cause reproductive or developmental effects.

Neurological Effects: This product is not known or reported to cause neurological effects.

Interactions With Other Chemicals

Which Enhance Toxicity: None known or reported.

XII. ECOLOGICAL INFORMATION

The aquatic toxicity of the product is unknown, however, based on components, it is predicted that this material would not be toxic to aquatic organisms or cause long-term adverse effects in the aquatic environment.

XIII. DISPOSAL CONSIDERATIONS

This product is not a hazardous waste as specified in 40CFR 261. Dispose in accordance with all Federal, State and Local regulations.

XIV. TRANSPORT INFORMATION

	US DOT	RID/ADR	IMDG	IATA	IMO	Canada TDG
Shipping Name	Not regulated					
Hazard Class:						
UN Number:						
Packing Group:						

FLASHPOINT: Not determined

XV. REGULATORY INFORMATION

US FEDERAL

TSCA: All materials are listed on the TSCA Inventory.
CERCLA: None
SARA 313: None

SARA 312 Hazard Class: Health: Acute – Yes
Chronic – No
Fire: No
Sudden Release of Pressure: No

SARA 302 EHS List: None of the components are listed

STATE RIGHT-TO-KNOW STATUS

Component	CA Prop. 65	Michigan	New Jersey	Pennsylvania	Massachusetts
None listed					

EUROPEAN/INTERNATIONAL REGULATIONS

Hazard Classification: Not classified

Risk Phrases: None required

Safety Phrases: S 2 Keep out of reach of children.
S 25 Avoid contact with eyes.
S 46 If swallowed, seek medical advice immediately and show this container or label.

Canadian DSL List:..... The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.

Canadian IDL: None of the ingredients are on this list.

WHMIS:..... Not classified.

XVI. ADDITIONAL INFORMATION

MSDS Creation Date:.....12/01

MSDS Revision #:B

MSDS Revision Date:.....6/17/03

Reason for Revision:.....Update product use information

For more information:.....www.3dsystems.com

800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

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