



Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH),
GHS Rev 04 (2011): US, OSHA, CMA, ANSI

VisiJet® PXL

Revision Date: 22 March 2013

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

1.1 Identification of the substance or preparation: **VisiJet® PXL (clear, cyan, magenta, yellow, black)**

1.2 Use of the substance / preparation: For use with ZPrinter® 3D inkjet printers

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
800.424.9300 - Chemtrec

3D Systems Europe Ltd.
Mark House, Mark Road
Hemel Hempstead
Herts HP2 7
United Kingdom
Phone: +44 144-2282600
703.527.3887 - Chemtrec (U.S.)

2. HAZARDS IDENTIFICATION

2.1 Classification:

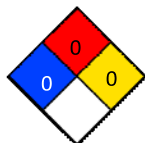
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 2012.

2.2 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 0
Flammability 0
Physical Hazards 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation related information

Description: aqueous solution

3.2 Hazard ingredients:

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
2-pyrrolidone	616-45-5	210-483-1	0-1	Xi R22, 37/38,41	Acut. Tox. 4, H302, STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam.1, H318



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4. FIRST AID MEASURES

4.1 In case of inhalation: Move affected person to fresh air. If respiratory irritation occurs, seek medical attention immediately.

4.2 In case of skin contact: Flush skin with plenty of soap and water.

4.3 In case of eye contact: Flush eyes with plenty of water.

4.4 In case of ingestion: If ingested, drink plenty of water. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

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

5.2. Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Thermal decomposition products can include CO₂, CO and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions: Wear appropriate protective equipment and clothing.

6.2. Environmental precautions: Avoid discharge to sewer system.

6.3. Methods for cleaning up: Wipe up. Place all waste in an appropriate container for disposal.

7. HANDLING AND STORAGE

7.1 Handling: Avoid contact with skin and eyes. Do not allow to enter drains or watercourses.

7.2 Storage: Store sealed in the original container at room temperature.

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.
Component Analysis:

Component	Component Manufacturer IEL (Internal Exposure Limit)
2-pyrrolidone	NA

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 (respiratory mask FFP3).

Hand protection: Use impervious nitrile gloves.

Eye protection: Wear safety glasses or chemical goggles.

Body protection: Use apron and closed shoes.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Physical state: Liquid (clear, cyan, magenta, yellow or black)

9.2 Important health, safety and environmental information

pH (20 °C):	9.8
Melting point/range (°C):	0°
Boiling point/range (°C):	100
Flash point (°C):	NA
Ignition temperature (°C):	NA
Vapour pressure (°C):	NA
Density (g/cm³):	1.0
Bulk density (kg/m³):	NA
Water solubility (20 °C in g/l):	soluble
Viscosity, dynamic (mPa s):	NA
Dust explosion hazard:	NA
Explosion limits:	NA

10. STABILITY AND REACTIVITY

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
2-pyrrolidone	328 mg/kg (rats)	NA

11.3 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. No data are available for the components of this product.

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

13. DISPOSAL CONSIDERATIONS

Appropriate disposal / Product: Do not contaminate drains, soil or surface waters with this material or its container. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations.



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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

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.

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):

Acute Tox.4, H302: Acute Toxicity, category 4, H 302: Harmful if swallowed
STOT SE 3, H335: Specific target organ toxicity-single exposure, category 3 : May cause respiratory irritation
Skin Irrit. 2, H315: Skin irritation, category 2, H315: Causes skin irritation
Eye Dam.1, H318: Eye Damage, category 1, H318: Causes serious eye damage

Relevant R-Phrases (number and full text) referred to in sections 2 and 3:

Xi: Irritant
R22: Harmful if swallowed
R37/38: Irritating to respiratory system and skin
R41: Risk of serious damage to eyes

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