



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

VisiJet® M5-X
Revision Date: August 7, 2013

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

1.1 Identification of the mixture: VisiJet® M5-X

1.2 Use of the preparation: For use with ProJet® 5000 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
800.424.9300 Toll Free

For Chemical Emergency:
800.424.9300 – Chemtrec (US)
Outside US:
+1 703.527.3887
Specific to Australia:
+(61) -290372994
Specific to Japan:
+(81) -345209637

2. HAZARDS IDENTIFICATION

2.1 Classification:

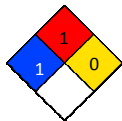
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 2012.

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

Precautionary statements:

P302+350: If on skin, wash with soap and water
P305+351+338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P410+403: Protect from sunlight. Store in a well-ventilated place
P501: Dispose of contents/container in accordance with local/regional regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization:

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



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

VisiJet® M5-X
Revision Date: August 7, 2013

Diphenyl (2,4,6-trimethylbenzoyl)-phosphine-oxide	75980-60-8	278-355-8	0.3-1	Repr.2, H361f, Aqu. Chron.2, H411, Skin Sens.1b, H317	Xn, N, R62, 43, 51/53
---	------------	-----------	-------	---	-----------------------

4. FIRST AID MEASURES

- 4.1 General Information:** Ensure that eyewash stations and safety showers are close to the workstation location.
- 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:** Immediately flush skin with plenty of soap and water. Get medical attention if symptoms occur.
- 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:** 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:** High volume water jet.
- 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Thermal decomposition products can include CO₂, CO, NO_x and smoke.
- 5.4 Special protective equipment for fire-fighters:** Wear full protective clothing, including helmet, self-contained positive-pressure or pressure demand breathing apparatus, protective clothing and facemask.
- 5.5 Additional information:** Move container from area if it can be done without risk. Cool containers with water spray. Avoid inhalation of material or combustion by-products.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing.
- 6.2 Environmental precautions:** Stop the flow of material. Ventilate contaminated area. Eliminate sources of ignition. In case of contamination of aquatic environment inform local authorities.
- 6.3 Methods for cleaning up:** Wear appropriate protective equipment and clothing. Absorb spillage with suitable absorbent materials. Place all waste in an appropriate container for disposal. The material and its container must be disposed of as hazardous waste. Keep away from sources of ignition.

7. HANDLING AND STORAGE

- 7.1 Handling** Provide adequate ventilation. Use suitable protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or mist. Avoid ignition sources. Do not allow to enter drains or watercourses.
- 7.2 Storage:** Store sealed in the original container at room temperature. Keep this material indoors in a cool, dry, well ventilated place. Store out of direct sunlight or UV light sources. Storage Temperature: below 35 °C / 95 °F. Storage class 10, environmentally hazardous liquids.



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

VisiJet® M5-X
Revision Date: August 7, 2013

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:

8.2 Exposure controls

Technical measures to prevent exposure: Use explosion-proof 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.

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

9.1 Appearance:

Physical state: soft solid to paste

Colour: Colorless

Odour: Mild

9.2 Important health, safety and environmental information

pH (20 °C):	NA
Melting point/range (°C):	55-65
Boiling point/range (°C):	NA
Flash point (°C):	> 93°C
Ignition temperature (°C):	NA
Vapour pressure (°C):	NA
Density (g/cm3):	1.1
Bulk density (kg/m3):	NA
Water solubility (20 °C in g/l):	slightly soluble
Partition coefficient:	NA
n-Octanol/Water (log Po/w):	NA
Viscosity, dynamic (mPa s):	13 (80°C)
Dust explosion hazard:	NA
Explosion limits:	NA

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Avoid exposure to heat and light. Take necessary actions to avoid static electricity discharge.

10.2 Materials to avoid: Oxidizing materials, strong acids and strong bases

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



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

VisiJet® M5-X
Revision Date: August 7, 2013

11.1 Toxicokinetics, metabolism and distribution: NA

11.2 Acute effects (toxicity tests)

Component	LD ₅₀ Oral	LD ₅₀ Dermal
Diphenyl (2,4,6-trimethylbenzoyl)- phosphine-oxide	> 5000 mg/kg	>2000 mg/kg

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. Prevent contamination of soil, drains and surface waters.

Component	Data
Diphenyl (2,4,6-trimethylbenzoyl)- phosphine-oxide	EC50 – 3.53mg/l (daphnia) LC50 (48h) – 6.53 mg/l (oryzias latipes)

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

13.1 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. Do not reuse or refill.

13.2 Waste codes / waste designations according to EWC / AVV: 070208

13.3 Appropriate packaging: NA

13.4 Additional information: Prior to disposal 3D Systems recommends consulting an approved waste disposal firm to ensure regulatory compliance.

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:



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

VisiJet® M5-X
Revision Date: August 7, 2013

Special provisions:

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

Proper Shipping Name:

Class:

UN-No.:

Packing group:

Special provisions:

15. REGULATORY INFORMATION

15.1 EU regulations

EINEC/ELINCS/NLP: All materials are listed

REACH Annex XVII: None listed

15.2 National regulations

Wassergefährdungsklasse (water hazard class, Germany): WGK 2: Hazard to waters

15.3.US FEDERAL

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

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

SARA 313 (40 CFR 372.65): Antimony Compounds (category N010)

CERCLA (40 CFR 302.4): None listed

OTHER INFORMATION

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

Repr.2, H361f : Reproductive toxicity, category 2: Suspected of damaging fertility

Aqu.Chron. 2, H411: Aquatic environment – long-term hazard, category 2: Toxic to aquatic life with long lasting effects

Skin Sens 1b, H317: Skin sensitization, category 1b: May cause an allergic skin reaction

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

R62: Possible risk of impaired fertility

16.2 Further information:

SDS Creation Date: August 7, 2013

SDS Revision #: NA

SDS Revision Date: NA

Reason for Revision: NA

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.)

803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

+44 144-2282600 (Europe GMT+01:00; Mon – Fri, 08:00 a.m. - 17:00 p.m. MEZ)

DISCLAIMER OF LIABILITY: The following supersedes any related provision in your company's forms, letters, and agreements from, by or with 3D Systems Corporation. 3D Systems, Inc. makes no warranty whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose for this product. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent now or hereafter in existence. Under no circumstances shall 3D Systems, Inc. be liable for incidental, consequential, or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability of 3D Systems, Inc. for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

The contents of this safety data sheet are subject to change without notice. 3D Systems, Inc. recommends that you periodically check www.3dsystems.com to make sure you are using the most current safety data sheet.



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

VisiJet® M5-X
Revision Date: August 7, 2013

© Copyright 2013 by 3D Systems, Inc. All rights reserved. The 3D logo, VisiJet and ProJet are registered trademarks of 3D Systems, Inc.