



Safety Data Sheet
 according to Regulation (EC) No 1907/2006 and 1272/2008,
 Hazard Communication Standard 29 CFR 1910 (USA),
 WHS Regulations Australia,
 JIS Z 7253 (2012) Japan

VisiJet® M2-RWT
 Revision Date: October 26, 2015

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

1.1 Identification of the mixture: VisiJet® M2-RWT

1.2 Use of the preparation: For use with ProJet® 2500 X 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 Chemical Emergency: 800.424.9300 – Chemtrec	3D Systems Europe Ltd. Mark House, Mark Road Hemel Hempstead Herts HP2 7 United Kingdom Phone: +44 144-2282600 e-mail: moreinfo@3dsystems.com Chemical Emergency: +1 703.527.3887 - Chemtrec	3D Systems / Australia 5 Lynch Street Hawthorn, VIC 3122 +1 03 9819-4422 e-mail: moreinfo@3dsystems.com Chemical Emergency: +(61) 29037.2994 – Aus Chemtrec	3D Systems Japan K.K. Ebisu Garden Place Tower 27F 4-20-3, Ebisu, Shibuya-ku, Tokyo 50-6027 Japan Telephone No. +81-3-5798-2500 e-mail: moreinfo@3dsystems.com Chemical Emergency +(81)-345209637 – Chemtrec
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2. HAZARDS IDENTIFICATION

2.1 Classification:

GHS : Regulation (EC) No. 1272/2008, HazCom 2012, Australian Dangerous Goods Code:

Serious eye damage/irritation	Category 1	H318
Skin irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Reproductive toxicity	Category 2	H361f
Aquatic environment-long-term hazard	Category 3	H412

Regulation (EC) 67/548/EEC and 1999/45/EC:

Xi, R41,38,43,62 52/53

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



GHS07



GHS08



GHS05

Signal word: Danger

Hazard determining components of labelling: Triethylene glycol diacrylate, Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statements:

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H318: Causes serious eye damage
- H361f: Suspected of damaging fertility or the unborn child
- H412: Harmful to aquatic life with long lasting effects

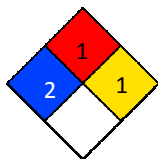


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Precautionary statements:

- P261: Avoid breathing gas/mist/vapours/spray
- P264: Wash skin thoroughly after handling
- P280: Wear protective gloves, protective clothing, eye protection
- 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
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention
- P362: Take off contaminated clothing and wash before reuse
- P410+403: Protect from sunlight. Store in a well-ventilated place
- P501: Dispose of contents/container in accordance with local/regional regulations



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 2
 Flammability 1
 Physical Hazards 1

Personal Protection:
 Skin, eye protection

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
Triethylene glycol diacrylate	1680-21-3	216-853-9	30-40	Acut. Tox. 4, H302 Acute Tox.4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam.1, H318	Xn, R21,22,38,41, 43
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.5-1.5	Skin Sens. 1, H317 Repr.2, H361 f Aqu. Chronic 2, H411	Xi, 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: May cause respiratory irritation. 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: May cause irritation or sensitization by skin contact, including redness and/or swelling. Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

4.4 In case of eye contact: Irritating to eyes. Causes redness, swelling and pain. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

4.5 In case of ingestion: Irritating to mouth, throat and stomach. If ingested, drink plenty of water and seek immediate medical attention. Do not induce vomiting.



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4.6 Self-protection of the first aider: Put on appropriate protective equipment (see section 8). Move exposed person to fresh air. Remove contaminated clothing and shoes.

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. Consult expert immediately.

6.2 Environmental precautions: Stop the flow of material, if this is without risk. 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.

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)
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide	3.5 mg/m ³
Triethylene glycol diacrylate	1 mg/m ³ can be absorbed through the skin

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.



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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: liquid

Colour: White

Odour: Mild

9.2 Important health, safety and environmental information

pH (20 °C):	NA
Melting point/range (°C):	NA
Boiling point/range (°C):	NA
Flash point (°C):	147 °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):	insoluble
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

11.1 Toxicokinetics, metabolism and distribution: NA

11.2 Acute effects (toxicity tests)

Component	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ (Inhalation)
Triethylene glycol diacrylate	996 mg/kg	1900 mg/kg	LC0 6h 0.75 mg/l (Rat)
Tricyclodecane dimethanol diacrylate	>5000 mg/kg	>5000 mg/kg	4h >40mg/l
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	> 5000 mg/kg	>2000 mg/kg	

Irritation to respiratory tract: irritating

Skin irritation: irritating

Eye irritation: irritating

Sensitisation: Causes sensitisation



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11.3 Experiences made in practice

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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 components, it is predicted that this material may be harmful to aquatic organisms or cause long-term adverse effects in the aquatic environment. Prevent contamination of soil, drains and surface waters.

Component	Data
Tricyclodecane dimethanol diacrylate	EC50 (48h)- 2.4 mg/l (daphnia magna) EC50 (72h)- 1.6 mg/l (green algae)
Triethylene glycol diacrylate	EC50- 120 mg/l (invertebrates) EC50-12 mg/l (algae)
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:



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14.2 Sea transport (IMDG-Code/GGVSee): Not Regulated

Proper Shipping Name:
Class:
UN-No.:
Packing group:
EmS:
Marine Pollutant:
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 EU 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): None listed
CERCLA (40 CFR 302.4): None listed

15.4 Australian regulations

SUSDP, Industrial Chemicals Act 1989:
Australian Inventory of Chemical Substances, AICS: Listed

15.5 Japanese regulations

Industrial Health and Safety Law	Article 57-2
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)	not applicable
Fire Services Act	no listed components
Explosives Law	Category 4, Class 3, oil
High pressure gas safety law	not applicable
Export Trade Control Order	not applicable
Waste Disposal and Public Cleaning Law	applicable
disposal operative to ensure regulatory compliance.	applicable. Before disposal, consult an approved waste



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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):

Acut. Tox. 4, H302- Acute Toxicity, oral, category 4, H 302: Harmful if swallowed
Acute Tox.4, H312- Acute Toxicity, dermal, category 4, H312: Harmful in contact with skin
Skin irrit. 2, H 315- Skin irritation, category 2, H315: Causes skin irritation
Skin sens. 1, H 317- Skin sensitization, category 1, H317: May cause an allergic skin reaction
Eye Dam.1, H318- Eye Damage, category 1, H318: Causes serious eye damage
Eye Irrit. 2, H319 - Eye irritation, category 2, H319: Causes serious eye irritation
STOT SE 3, H335- Specific target organ toxicity, category 3, H 335: May cause respiratory irritation
Repr.2, H361f: Reproductive toxicity, category 2, H 361f: Suspected of damaging fertility
Aqu.Chron. 2, H411: Aquatic environment – long-term hazard, category 2, H411: Toxic to aquatic life with long lasting effects
Aqu. Chron. 3, H412: Aquatic environment - long-term hazard, category 3, H412: Harmful to aquatic life with long lasting effects

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

R21: Harmful in contact with skin
R22: Harmful if swallowed
R36/37/38- Irritating to eyes, respiratory system and skin
R38: Irritating to skin
R41: Risk of serious damage to eyes
R43: May cause sensitization by skin contact
R62: Possible risk of impaired fertility
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

16.2 Further information:

SDS Creation Date: October 26, 2015
SDS Revision #:
SDS Revision Date:
Reason for Revision:

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