



Safety Data Sheet
according to Regulation (EC) No 1907/2006 (REACH),
GHS Rev 04 (2011): US, OSHA, CMA, ANSI
WHS Regulations Australia
JIS Z 7253 (2012): Japan

VisiJet® M3 Black

Revision Date: February 21, 2014

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

1.1 Identification of the mixture: VisiJet® M3 Black

1.2 Use of the preparation: For use with ProJet® 35x0 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
Chemical Emergency:
800.424.9300 – Chemtrec
(US)

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

3D Systems / Australia
5 Lynch Street
Hawthorn, VIC 3122
+1 03 9819-4422
Chemical Emergency:
703.527.3887 - Chemtrec

3D Systems Japan K.K.
Yebisu Garden Place
Tower 27F
4-20-3, Ebisu, Shibuya-
ku, Tokyo 50-6027 Japan
Telephone No. +81-3-
5798-2500
Chemical Emergency
+(81)-345209637 –
Chemtrec

Importer:
UniChem Corporation
1-5-16, Uchikanda
Chiyoda-ku, Tokyo
101-0047 Japan

2. HAZARDS IDENTIFICATION

2.1 Classification

GHS : Regulation (EC) No. 1272/2008, HazCom 2012:

Eye irritation	Category 2	H319
Specific target organ toxicity — single exposure	Category 3	H335
Skin irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Aquatic Chronic	Category 3	H412

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

Xi, R 36/37/38, R 43, R52

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



GHS07

Signal word: Warning

Hazard determining components of labelling: Tripropyleneglycol diacrylate



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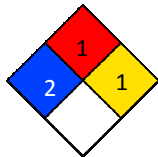
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Hazard statements:

H319: Causes serious eye irritation
H335: May cause respiratory irritation
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H412: Harmful to aquatic life with long lasting effects

Precautionary statements:

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
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
Ethoxylated bisphenol A diacrylate	64401-02-1		10-20	Eye Irrit.2, H319, Skin Irrit. 2, H315	Xi, R36/38
Urethane acrylate oligomers	proprietary		20-40	Eye Irrit. 2, H319 Skin Irrit.2, H 315 STOT SE 3, H335	Xi, R36/37/38
Tripropyleneglycol diacrylate	42978-66-5	256-032-2	1.5-3	Eye Irrit. 2, H319 Skin Irrit.2,H 315 STOT SE 3, H335, Skin Sens. 1, H317 Aqu. Chronic 2, H411	Xi, R36/37/38, R43, R 51/53



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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.
- 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.



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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)
Ethoxylated bisphenol A diacrylate	NA
Urethane acrylate oligomers	NA
Tripolyleneglycol diacrylate	NA

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: black

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):	181
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



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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
Ethoxylated bisphenol A diacrylate	NA	NA
Urethane acrylate oligomers	>5000mg/kg (rat)	NA
Tripropyleneglycol diacrylate	> 2000 mg/kg	N/A

Irritation to respiratory tract: irritating

Skin irritation: irritating

Eye irritation: irritating

Sensitisation: Causes sensitisation

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. .No ecotoxicity data are available for this product's components.

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.



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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:

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

15.4. Australian regulations

SUSDP, Industrial Chemicals Act 1989:

Australian Inventory of Chemical Substances, AICS: Listed

15.5. Japanese regulations

Chemical Risk Information platform (CHRIP): Listed



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OTHER INFORMATION

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

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 Irrit. 2, H319- Eye irritation, category 2, H319: Causes serious eye irritation
STOT SE 3, H335- Specific target organ toxicity — single exposure, H335: May cause respiratory irritation
Aqu. Chron.3, H412; Aquatic environment – long-term hazard, H412: Harmful to aquatic life with long lasting effects
Aqu.Chron. 2, H411: Aquatic Toxicity (chronic), H411: Toxic to aquatic life with long lasting effects

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

R36/37/38- Irritating to eyes, respiratory system and skin
R43: May cause sensitization by skin contact
R52: Harmful to aquatic organisms

16.2 Further information:

SDS Creation Date: July 4, 2013
SDS Revision #: G
SDS Revision Date: February 21, 2014
Reason for Revision: Flash point update, Australian, Japanese regulations

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