

## 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<sup>®</sup> CE-NT, VisiJet CE-BK

Revision Date: December 22, 2017

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

##### 1.1 Identification of the mixture: **VisiJet CE-NT, VisiJet CE-BK**

**1.2 Use of the preparation:** For use with ProJet<sup>®</sup> 5500 X and 5600 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](mailto: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](mailto: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](mailto:moreinfo@3dsystems.com)  
Chemical Emergency:  
+(61) 29037.2994 – Aus Chemtrec

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification:

**GHS : Regulation (EC) No. 1272/2008, 29 CFR 1910, Australian Dangerous Goods Code:**

Eye irritation	Category 2	H319
Skin irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Specific target organ toxicity-single exposure	Category 3	H335
Aquatic environment – long-term hazard	Category 3	H412

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

Xi, R 36/37/38, R 43, R52/53

##### 2.2 Label Elements

**Regulation (EC) No, 1272/2008:**

**Hazard pictograms and signal word:**



**GHS07**

**Signal word: Warning**

**Hazard determining components of labelling:** Isobornyl methacrylate

##### Hazard statements:

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

## Safety Data Sheet

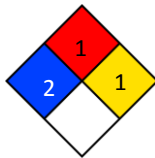
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#### Precautionary statements:

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
Monofunctional aliphatic urethane acrylate	63225-53-6	264-036-0	70-80	Eye Irrit.2, H319, Skin Irrit. 2, H315 STOT SE3, H335	Xi, R36/37/38
Isobornyl methacrylate	7534-94-3	231-403-1	5-10	Eye Irrit. 2, H319 Skin Irrit.2, H 315 Skin Sens.1, H317 Aqu. Chronic 2, H411	Xi, N R36/38, 43, 51/53
Phenylbis (2,4,6-trimethyl benzoyl)- phosphine oxide	162881-26-7	423-340-5	1-3	Skin Sens. 1, H317 Aqu. Chronic 4, H413	Xi, R43, 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.

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#### 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 CO<sub>2</sub>, CO, NO<sub>x</sub> 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.

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#### 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.

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#### 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)
Phenylbis (2,4,6-trimethyl benzoyl)- phosphine oxide	7.8 mg/m <sup>3</sup>

##### 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 (e.g. 3M 6000 with organic vapor cartridge A2 or half mask 3M 4251).

**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

**Colour:** Slightly yellow or black

**Odour:** Mild

### 9.2 Important health, safety and environmental information

<b>pH (20 °C):</b>	NA
<b>Melting point/range (°C):</b>	NA
<b>Boiling point/range (°C):</b>	NA
<b>Flash point (°C):</b>	VisiJet CE-NT - 141°C / VisiJet CE-BK – 147°C (COC)
<b>Ignition temperature (°C):</b>	NA
<b>Vapour pressure (°C):</b>	NA
<b>Density (g/cm<sup>3</sup>):</b>	1.1
<b>Bulk density (kg/m<sup>3</sup>):</b>	NA
<b>Water solubility (20°C in g/l):</b>	insoluble
<b>Partition coefficient:</b>	NA
<b>n-Octanol/Water (log Po/w):</b>	NA
<b>Viscosity, dynamic (mPa s):</b>	12 (80°C)
<b>Dust explosion hazard:</b>	NA
<b>Explosion limits:</b>	NA

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## 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.

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## 11. TOXICOLOGICAL INFORMATION

**11.1 Toxicokinetics, metabolism and distribution:** NA

### 11.2 Acute effects (toxicity tests)

Component	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal
Monofunctional aliphatic urethane acrylate	>2000 mg/kg (rat)	NA
Isobornyl methacrylate	NA	NA
Phenylbis (2,4,6-trimethyl benzoyl)- phosphine oxide	>2000 mg/kg (rat)	> 2000 mg/kg

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**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.

Component	Data
Isobornyl methacrylate	NA
Phenylbis (2,4,6-trimethyl benzoyl)- phosphine oxide	EC 50 (48h):117.5 mg/l (Daphnia magna)

**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:

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## 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

Chemical Risk Information platform (CHRIP)	Listed
Industrial Health and Safety Law	not applicable
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	not applicable
	applicable. Before disposal, consult an approved waste disposal operative to ensure regulatory compliance.

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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):

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, category 3, H335: May cause respiratory irritation  
Aqu. Chron.3, H412; Aquatic environment – long-term hazard, category 3, H412: Harmful to aquatic life with long lasting effects  
Aqu.Chron. 2, H411: Aquatic environment – long-term hazard, category 2, H411: Toxic to aquatic life with long lasting effects  
Aqu. Chron. 4, H413: Aquatic environment – long-term hazard, category 4, H413: May cause long lasting harmful effects to aquatic life

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

R36/38- Irritating to eyes and skin  
R43: May cause sensitization by skin contact  
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: ..... February 27, 2015  
SDS Revision #: .....03-A  
SDS Revision Date: .....December 22, 2017  
Reason for Revision: ..... Update header, Sections 1, 2, 8, 15

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