



**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

**zp®131 Powder**

Revision Date: November 11, 2014

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

**1.1 Identification of the substance or preparation: zp131 powder**

**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  
 e-mail: moreinfo@3dsystems.com  
 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  
 703.527.3887 - Chemtrec (U.S.)

**2. HAZARDS IDENTIFICATION**

**2.1 Classification:**

Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910

**2.2 Label Elements**

Regulation (EC) No, 1272/2008:

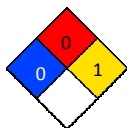
**Hazard pictograms and signal word:** None

**Hazard statements:** None

**Precautionary statements:**

When mixed with water, this material hardens. **DO NOT** attempt to make a cast enclosing any part of the body using this material.

P232: Protect from moisture  
 P402: Store in a dry place



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 **1**  
 Personal Protection: **B**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Preparation related information**

**Description:** Mixture

**3.2 Hazard ingredients:**

Chemical name	CAS-No	EC-No	%	Classification	
				Regulation (EC) 1272/2008	Regulation 67/548/EEC, 1999/45/EC
Calcium sulfate hemihydrate	10034-76-1	231-900-3	80-90		



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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.

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### 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 sulphur oxides, calcium oxide, CO<sub>2</sub> and CO.

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### 6. ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions:** Avoid dust formation. Do not breathe vapors/mist/gas.

**6.2. Environmental precautions:** Avoid discharge to sewer system.

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

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### 7. HANDLING AND STORAGE

**7.1 Handling:** Provide adequate ventilation during dust formation.

**7.2 Storage:** Store sealed in the original container at room temperature. Keep this material in a cool, dry, well-ventilated place.

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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)
Calcium sulphate hemihydrate	6mg/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.

#### Personal protection equipment:

**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:** Powder

**Color:** white

**Odor:** mild

**9.2 Important health, safety and environmental information**

<b>pH (20 °C):</b>	NA
<b>Melting point/range (°C):</b>	1450°C
<b>Boiling point/range (°C):</b>	NA
<b>Flash point (°C):</b>	NA
<b>Ignition temperature (°C):</b>	NA
<b>Vapour pressure (°C):</b>	NA
<b>Density (g/cm<sup>3</sup>):</b>	2.6-2.7
<b>Bulk density (kg/m<sup>3</sup>):</b>	NA
<b>Water solubility (20 °C in g/l):</b>	0.83% (3°C)
<b>Viscosity, dynamic (mPa s):</b>	NA
<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 wet/humid environment. Avoid dust formation.

**10.2 Materials to avoid:** Oxidizing materials, acids, strong bases, water, high humidity.

**10.3 Hazardous decomposition products:** Sulphur oxides, calcium oxide, carbon dioxide and carbon monoxide 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
Calcium sulphate hemihydrate	> 5000mg/kg (rats)	NA

**11.3. General remarks:**

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

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**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



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### 13. DISPOSAL CONSIDERATIONS

**Appropriate disposal / Product:** 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

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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 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

#### 15.3. Australian regulations

SUSDP, Industrial Chemicals Act 1989:

Australian Inventory of Chemical Substances, AICS: Listed

#### 15.4 Japanese regulations

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 not applicable

Explosives Law not applicable

High pressure gas safety law not applicable

Export Trade Control Order applicable

Waste Disposal and Public Cleaning Law not applicable

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### 16. OTHER INFORMATION

SDS Creation Date: ..... July 2006

SDS Revision #: ..... -00-A

SDS Revision Date: ..... November 11, 2014

Reason for Revision: ..... GHS version

[www.3dsystems.com](http://www.3dsystems.com)

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