



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

Wood

Revision Date: 18 October, 2015

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

1.1 Identification of the substance or preparation: **Bronze**

1.2 Use of the substance / preparation: For use with the Cube® 3D 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
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
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Chemtrec

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

2. HAZARDS IDENTIFICATION

2.1 Classification

GHS : Regulation (EC) No. 1272/2008, 29 CFR 1910:

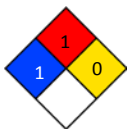
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910.

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word: None

Hazard statements: None



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**

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation related information

Description: Biopolymer containing wood powder

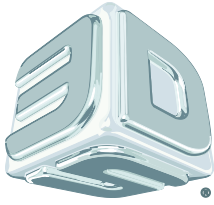
4. FIRST AID MEASURES

4.1 In case of inhalation: Fumes released from heated material may cause irritation to respiratory system. 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: Burning produces noxious and toxic fumes. Thermal decomposition products can include CO₂, CO and aldehydes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear appropriate protective equipment and clothing.

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.

7. HANDLING AND STORAGE

7.1 Handling: Avoid contact with skin and eyes. Do not allow to enter drains or watercourses.

7.2 Storage: Store sealed in the original container at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ideally, plastic filament is not expected to contain dust; however, dust may be generated by material abrasion in transport systems, or by cutting or machining of plastic material.

8.1 Exposure limit values:

OSHA-TWA : Nuisance Dust 15 mg/m³; Respirable Dust 5 mg/m³.

US ACGIH : Inhalable Dust 10 mg/m³ ; Respirable Dust 3 mg/m³.

EH40-WEL (rev.2011) :

Inhalable Dust 8-hour TWA 10 mg/m³ ; Respirable Dust 8-hour TWA 4 mg/m³.

Wood dust:

OSHA TWA: 15 mg/m³

US ACGIH TLV: 5 mg/m³

NIOSH: 1 mg/m³

8.2 Exposure controls

Technical measures to prevent exposure:

Good general ventilation should be sufficient for normal operation.

Respiratory protection (only when dust has formed):

Particle filter Type P1 or FFP1 (low efficiency for solid particles e.g. EN143, 149).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Physical state: Solid filament

Colour: Bronze

Odour: Odourless



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9.2 Important health, safety and environmental information

pH (20 °C):	NA
Vicat Softening Point (°C):	NA
Boiling point/range (°C):	NA
Flash point (°C):	> 207°C
Ignition temperature (°C):	NA
Vapour pressure (°C):	NA
Density (g/cm ³):	1.2
Bulk density (kg/m ³):	NA
Water solubility (20°C in g/l):	Insoluble
Partition coefficient:	NA
n-Octanol/Water (log Po/w):	NA
Viscosity, dynamic (mPa s):	NA
Dust explosion hazard:	NA
Explosion limits:	NA

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Temperatures over the decomposition temperature of 250° C. These temperatures are not encountered in normal operations.

10.2 Hazardous decomposition products: At high temperatures or upon burning, thermal decomposition products including but not limited to carbon monoxide and carbon dioxide may be emitted.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution: NA

11.2 Acute effects (toxicity tests)

Acute toxicity: NA

Oral LD50: NA

Irritant and corrosive effects: NA

Irritation to respiratory tract: NA

Sensitisation: NA

11.3 Experiences made in practice

Observations relevant to classification: -

Other observations:-

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: Not expected to be acutely toxic.

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

13.1 Appropriate disposal / Product: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with appliance laws are the responsibility solely of the waste generator. For unused & uncontaminated product, the preferred options include sending to a licensed, permitted recycler, reclaim, incinerator or other thermal destruction device.

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

13.3 Appropriate packaging: -

13.4 Additional information: -

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

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:
California Proposition 65: This product does not contain chemicals which are known to the state of California to cause cancer, birth, or any other reproductive defects.

15.3 Australian regulations

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

15.4 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)	no listed components
Fire Services Act	not applicable
Explosives Law	not applicable
High pressure gas safety law	not applicable
Export Trade Control Order	not applicable
Waste Disposal and Public Cleaning Law	not applicable



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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):

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16.2 Further information:

SDS Creation Date:October 18, 2015

SDS Revision #:.....

SDS Revision Date:

Reason for Revision:.....

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)

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