

81782-1009



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

Copper Metal Filament
 Revision Date: 18 October, 2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the substance or preparation: Copper Metal Filament**

1.2 Use of the substance / preparation: For use with the CubePro® and 3rd generation 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
 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

2. HAZARDS IDENTIFICATION**2.1 Classification**

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

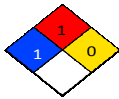
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910.

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 metal 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.

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.



Safety Data Sheet
 according to Regulation (EC) No 1907/2006 and 1272/2008,
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Copper Metal Filament
 Revision Date: 18 October, 2015

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:** During and immediately after post-processing wear protective gloves and eyewear to prevent 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

Plastic filament is not expected to contain dust; however, dust may be generated by sanding, machining or other post-processing of plastic material.

8.1 Exposure limit values:

OSHA-PEL : 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.
 Copper:
 Short term value: 2 mg/m³ (dusts and mists)
 Long term value: 0.2 mg/m³ (dusts and mists)

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):

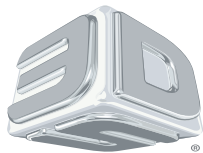
Particle filter Type P1 or FFP1 (low efficiency for solid particles e.g. EN143, 149).

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Appearance:**

Physical state: Solid filament
Colour: Copper
Odour: Odourless

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/cm³):	1.2
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):	NA
Dust explosion hazard:	NA
Explosion limits:	NA



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

Copper Metal Filament

Revision Date: 18 October, 2015

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

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: -

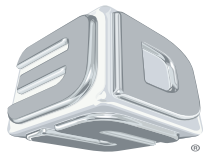
13.4 Additional information: -.

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006 and 1272/2008,
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WHS Regulations Australia,
JIS Z 7253 (2012) Japan

Copper Metal Filament

Revision Date: 18 October, 2015

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

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): -

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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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

Bronze Metal Filament

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 Metal Filament

1.2 Use of the substance / preparation: For use with the CubePro[®] and 3rd generation 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.
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Herts HP2 7
United Kingdom
Phone: +44 144-2282600
e-mail:
moreinfo@3dsystems.com
Chemical Emergency:
+1 703.527.3887 - Chemtrec

3D Systems / Australia
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+1 03 9819-4422
e-mail:
moreinfo@3dsystems.com
Chemical Emergency:
+(61) 29037.2994 – Aus
Chemtrec

3D Systems Japan K.K.
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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:

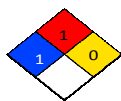
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910.

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 metal 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.

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.



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Bronze Metal Filament
 Revision Date: 18 October, 2015

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:** During and immediately after post-processing wear protective gloves and eyewear to prevent 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

Plastic filament is not expected to contain dust; however, dust may be generated by sanding, machining or other post-processing of plastic material.

8.1 Exposure limit values:

OSHA-PEL : 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.
 Copper:
 Short term value: 2 mg/m³ (dusts and mists)
 Long term value: 0.2 mg/m³ (dusts and mists)
 Tin:
 Short term value: 4 mg/m³ (dusts and mists)
 Long term value: 2 mg/m³ (dusts and mists)

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

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/cm³):	1.2
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):	NA
Dust explosion hazard:	NA
Explosion limits:	NA



Safety Data Sheet

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WHS Regulations Australia,
JIS Z 7253 (2012) Japan

Bronze Metal Filament

Revision Date: 18 October, 2015

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

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



Safety Data Sheet
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 WHS Regulations Australia,
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Bronze Metal Filament
 Revision Date: 18 October, 2015

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

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): -****16.2 Further information:**

SDS Creation Date:October 18, 2015
 SDS Revision #:
 SDS Revision Date:
 Reason for Revision:.....

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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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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 3D Printing Material

Revision Date: 29 December, 2015

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

1.1 Identification of the substance or preparation: Wood 3D Printing Material

1.2 Use of the substance / preparation: For use with the CubePro® and 3rd generation 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
 Chemical Emergency:
 +1 703.527.3887 - Chemtrec

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 Hawthorn, VIC 3122
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 e-mail:
 moreinfo@3dsystems.com
 Chemical Emergency:
 +(61) 29037.2994 – Aus
 Chemtrec

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 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:

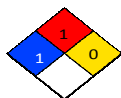
Not classified according to GHS, Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910.

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.

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.



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 3D Printing Material

Revision Date: 29 December, 2015

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:** During and immediately after post-processing (after 3D printing) wear protective gloves and eyewear to prevent dust from contacting skin and eyes. Do not allow waste material to enter drains or watercourses.
7.2 Storage: Store sealed in the original container at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Plastic filament is not expected to contain dust; however, dust may be generated by sanding, machining or other post-processing 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: Brown
Odour: Wood-Like

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/cm³):	1.2
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):	NA
Dust explosion hazard:	NA
Explosion limits:	NA



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 3D Printing Material

Revision Date: 29 December, 2015

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

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



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 3D Printing Material

Revision Date: 29 December, 2015

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

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):

16.2 Further information:

SDS Creation Date:December 29, 2015
 SDS Revision #:00-A
 SDS Revision Date:n/a
 Reason for Revision:.....Creation

www.3dsystems.com

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 803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)
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SAFETY DATA SHEET

Print date: 13-Mar-2013

Revision Number: 3

Revision date: 13-Mar-2013

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark:	LEXAN*
Product Code:	143R -112
Product Description:	Poly (bisphenol-A-carbonate) [CASRN 111211-39-3]
Product Type:	Commercial Product
Recommended use:	May be used to produce molded or extruded articles or as a component of other industrial products.
Company:	SABIC Innovative Plastics One Plastics Avenue Pittsfield, MA 01201 USA (413) 448-5800 www.sabic-ip.com
Manufacturer:	SABIC Innovative Plastics 1 Lexan Lane Mt. Vernon, Indiana 47620 United States -and/or- SABIC Innovative Plastics 1 Plastics Drive Burkville, Alabama 36752 United States
Emergency Telephone Number:	800/447-4545
Emergency Transportation/CHEMTREC (24 HOUR):	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
E-mail:	productinquiries@sabic-ip.com
Website Address:	www.sabic.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION.



3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

Skin Contact:

Not a hazard with pellets during normal industrial use.

Eye Contact:

Resin particles, like other inert materials, are mechanically irritating to eyes.

Inhalation:

Pellet inhalation unlikely due to physical form.

Ingestion:

Pellet ingestion unlikely due to physical form.

Sensitization:

No information available on this product

Other Information:

OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions

Chronic/Carcinogenic Information

Chronic Toxicity:

No information available

Processing Issues:

Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

Aggravated Medical Conditions:

MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.



4. FIRST AID MEASURES

If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
On skin contact:	Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.
On contact with eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
On ingestion:	No hazards which require special first aid measures.
Precautions:	Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

5. FIRE-FIGHTING MEASURES

Autoignition Temperature:	630°C (1166°F), estimated
Explosive Limits	
upper:	Not determined
lower:	Not determined
Suitable Extinguishing Media:	Use dry chemical, CO ₂ , water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
Unsuitable Extinguishing Media for Safety Reasons:	Do not use a solid water stream as it may scatter and spread fire.
Hazards from Combustion Products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
Special Protective Equipment for Firefighters:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Specific Hazards:	Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Clean up:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
Personal Precautions:	See section 8.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.



7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
Storage:	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	No components with information, unless noted below
Engineering Measures to Reduce Exposure:	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
Hand Protection:	Protective gloves should be worn
Eye Protection:	Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.
Respiratory Protection:	When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
Body Protection:	Long sleeved clothing
Hygiene Measures:	When using, do not eat, drink or smoke.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Pellets
Color:	Same as color code
Odor:	None or slight
Melting point/range:	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
Autoignition Temperature:	630°C (1166°F) estimated
Vapor Pressure:	Negligible
Water Solubility:	Insoluble
Evaporation Rate:	Negligible
Specific gravity:	>1; (water = 1)
VOC content (%):	Negligible
Explosive Limits	
upper:	Not determined
lower:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under ambient conditions. Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid temperatures above 630°C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.
Hazardous Decomposition Products:	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates.



11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50/oral/rat:	>5000 mg/kg
LD50/dermal/rabbit:	>2000 mg/kg
Inhalation:	Pellet inhalation unlikely due to physical form.
Eye Contact:	Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin Contact:	Not a hazard with pellets during normal industrial use.
Ingestion:	Pellet ingestion unlikely due to physical form.
Chronic Toxicity:	No information available
Subchronic Toxicity:	No information available
Primary Irritation:	Substance does not generally irritate and is only mildly irritating to the skin.
IARC:	Not listed
OSHA:	Not regulated
NTP:	Not tested
Remarks:	The toxicological data has been taken from products of similar composition.
Special Studies:	No Information

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	Do not flush into surface water or sanitary sewer system.
Other information:	Ecological damages are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Waste Disposal:	Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.
------------------------	---



14. TRANSPORT INFORMATION

Transport Classification:

Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO

CANADA/TDG



15. REGULATORY INFORMATION

International Inventories:

TSCA (USA):	Listed
DSL (Canada):	Listed
EINECS/ELINCS (Europe):	Listed
ENCS (Japan):	Listed
IECSC (China):	Listed
KECL (Korea):	Listed
PICCS (Philippines):	Listed
AICS (Australia):	Listed
NZIoC (New Zealand):	Listed

Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

SARA (313) Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA (311, 312) hazard class:

Acute Health Hazard	N
Chronic Health Hazard	N
Fire Hazard	N
Sudden Release of Pressure Hazard	N
Reactive Hazard	N

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS hazard class:

Non-controlled

California Proposition 65:

This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

RoHS EU Directive 2002/95/EC:

This product is in compliance with the EU RoHS Directive 2002/95/EC. The following are not intentionally added during the manufacture of this product: a - cadmium and its compounds, b - lead and its compounds, c - mercury and its compounds, d - hexavalent chromium compounds, e - polybrominated biphenyls (PBBs), f - polybrominated diphenyl ethers (PBDEs, including Deca-BDE).



16. OTHER INFORMATION

LEXAN* is a trademark of SABIC Innovative Plastics IP BV

SDS Scope:

USA: Conforms to 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

This document is also applicable in other countries and regions.

Prepared by: Product Stewardship & Toxicology

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End of Safety Data Sheet

NYCOA 2047

Section I: IDENTIFICATION

Product Identifier: NYCOA 2047**Chemical Family: Polyamide Resin****Recommended use of the chemical and restriction on use:**Recommended use: Polymer for industrial processing only
Suitable for use in industrial sector: Polymer industry

The 'Recommended use' identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty express or implied by incorporation into or reference in the Seller's sales agreement.

Details of the supplier of the safety data sheet:Company:Nylon Corporation of America
333 Sundial Avenue
Manchester, NH 03103Ph: 603 627 5150
Fax: 603 627 5154Emergency number:

Nylon Corporation of America

Ph 603 627 5150 ext 352

Section II - HAZARDOUS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

No need for classification according to GHS criteria for this product

Hazards not otherwise classified:

No specific dangers known, if the regulations/notes for storage and handling are considered.

There is NO chemical present in this product at a concentration of 0.1% or more that has been classified as a carcinogen by IARC, NTP or OSHA.

NYCOA Nylons are thermoplastic resins. In the solid state, they are not hazardous.



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NYCOA 2047**Safety Data Sheet**

During processing when converted to the molten state, normal precautions for the handling of hot, sticky, fluid melts should be observed.

Label elements:

The product does not require a hazard warning label in accordance with GHS criteria:

Section III – COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
51995-62-1	=>90% - =<100%	Polycaprolactam/Polyamide 6
105-60-2	=< 5%	Caprolactam

Section IV – FIRST-AID MEASURES

General advice:

Avoid contact with skin, eyes and clothing
Remove contaminated clothing

If Ingested:

Low toxicity, not a probable route of exposure. If ingested seek medical attention.

If Inhaled:

Pellets not respirable. Vapors evolved during normal processing may be irritating to the respiratory tract if adequate ventilation is not provided. Move the affected individual to fresh air and assist in breathing if necessary. Seek medical attention.

If on skin:

Burns caused by molten material require hospital treatment. Flush with cool water immediately. Dermatitis may result from repeated skin contact. Flush with cool water. Seek medical attention if a severe reaction occurs.

If in eyes:

Continuously rinse eyes immediately for at least 20 minutes. If irritation develops, seek medical attention.



NYCOA 2047

**Important symptoms and effects, both acute and delayed****Symptoms:** No significant reaction of the human body to the product is known.**Hazards:** No hazard is expected under intended use and appropriate handling**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically

Section V - FIRE –FIGHTING MEASURES

Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical.

Unusual Fire and Explosion Hazards: Smoke and noxious gases (carbon monoxide, hydrocarbons, ammonia, hydrogen cyanide) evolved upon burning.

Special Fire Fighting Procedures: Self-contained breathing apparatus in any closed space.

Section VI – ACCIDENTAL RELEASE MEASURES

No special personal precautions or emergency procedures are necessary.

Steps to be Taken in Care Material is Released or Spilled: Sweep up and discard.

Waste Disposal Method: Landfill in accordance with local, state and federal laws.



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NYCOA 2047



Section VII – HANDLING AND STORAGE

Precautions to be taken in Handling:	Practice reasonable care and caution in handling NYCOA Nylon. Avoid breathing dust if generated.
Precautions to be taken in Storing:	Suitable materials for containers: Low density polyethylene (LDPE). Keep container sealed to avoid contact with moisture.
Other Precautions:	
Inhalation (Breathing)	If exposed to excessive fumes from overheating or combustion, move to fresh air.
Skin Contact:	If molten polymer comes in contact with exposed skin quench rapidly in cold water. Obtain medical attention to remove any polymer attached to skin and for burns.
<u>DOT CATEGORY:</u>	Not Restricted

Section VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with occupational exposure limits:

- Caprolactam - ACGIH TLV TWA value 5 mg/m³ inhalable dust and vapor

Respiratory Protection:	None required with sufficient ventilation.
Ventilation:	Good room ventilation.
Protective Gloves:	Recommended if contact with molten material or newly molded polymer parts is required.
Eye Protection:	Safety glasses for good work practices



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NYCOA 2047**Safety Data Sheet**

Other Protective Equipment: Clean work clothing.

General safety and hygiene measures: Avoid inhalation of dust. Wear a NIOSH-certified (or equivalent) particulate respirator if ventilation is not adequate.

Section IX – PHYSICAL AND CHEMICAL PROPERTIES

<u>Form:</u>	Pellets	<u>Odor:</u>	Odorless
<u>Melting Point:</u>	391 F (199 C)	<u>Boiling Point:</u>	N.A.
<u>Specific Gravity:</u>	1.12	<u>Vapor Density (Air=1):</u>	N.A.
<u>Percent Volatiles:</u>	Nil	<u>Evaporation Rate:</u>	N.A.
<u>Flammability:</u>	Not self-igniting	<u>Auto-ignition temp:</u>	>750 F (400 C)
<u>Lower explosive limit:</u>	Not determined	<u>Upper explosive limit:</u>	Not determined
<u>Flashpoint:</u>	Not Applicable		

Section X - STABILITY AND REACTIVITY

Stability:	Stable.
Incompatibility (Materials to Avoid):	None known.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Temperatures over 555° F (290 C) may result in thermal decomposition.
Hazardous decomposition products:	These include Ammonium hydroxide, carbon monoxide, carbon dioxide, caprolactam, hydrogen cyanide, nitriles.

NYCOA 2047



SECTION XI – TOXICOLOGICAL INFORMATION

Primary routes of exposure

Ingestion and inhalation are routes of exposure for solids and liquids.

Inhalation and eye contact are routes of exposure for gases.

Skin contact may be a route of exposure for liquefied gases.

Acute Toxicity/Effects

Acute toxicity – The resin in pellet form presents a low hazard. Contact with molten material may cause thermal burns.

Oral – Acute Toxicity Estimate (ATE) > 1500 mg/kg

Inhalation - The properties of the product preclude inhalation.

Dermal – Acute toxicity estimate (ATE) >5000 mg/kg

Irritation/corrosion – Contact with the skin, respiratory tract or eyes may cause irritation

Sensitization – Based on our experience and the information available, no adverse health effects are expected provided the material is handled as recommended with the appropriate precautions for designated uses.

Information on caprolactam – May cause slight irritation to the skin and eyes

Chronic Toxicity/Effects

Genetic toxicity - Based on our experience and the information available, no adverse health effects are expected provided the material is handled as recommended with the appropriate precautions for designated uses.

Carcinogenicity - Based on our experience and the information available, no adverse health effects are expected provided the material is handled as recommended with the appropriate precautions for designated uses.

Other information - Based on our experience and the information available, no adverse health effects are expected provided the material is handled as recommended with the appropriate



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NYCOA 2047

precautions for designated uses.

Symptoms of Exposure

No significant reaction by the human body to the product is known.

Information on caprolactam – After repeated exposure the most significant effect is local irritation. Animal studies have shown damage to the upper respiratory tract after repeated inhalation.

Section XII – ECOLOGICAL INFORMATION

Ecotoxicity: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms or systems.

Persistence and Degradability: In pellet form, product is inert and not biodegradable

Bioaccumulative Potential: Unlikely

Mobility in Soil: NA

Results of PBT and vPvB assessment: NA

Section XIII – DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations

Section XIV – TRANSPORT INFORMATION

ADR: Not regulated as dangerous goods

IMDG: Not regulated as dangerous goods

IATA: Not regulated as dangerous goods



NYCOA 2047



Section XV – REGULATORY INFORMATION

Federal Regulations**Registration status:**

Chemical TSCA, US released/listed

EPCRA 311/312: Not hazardous**State Regulations:**

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	105-60-2	Caprolactam

NFPA Hazard codes

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

Section XVI – OTHER INFORMATION

Safety Data Sheet prepared by NYCOA Product Stewardship team on 10/14/14

This Safety Data Sheet (SDS) is presented in good faith, based on currently available information, and is accurate to the best of our knowledge. It does not replace the precautions, directions and information contained on the product label. The user is solely responsible for: 1) following all instructions, recommendations and directions; 2) deciding whether this product or the information about this product is suitable for its use; 3) providing this SDS and all other information about this product to any subsequent users; 4) meeting all applicable health and safety standards and regulations; and 5) ensuring that no patent infringement occurs.

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