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Revision Number 1

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

### Product identifier

**Product Name** MB-NYLON

### Other means of identification

**Product Code(s)** SDS-MB-000005 CE D BLK

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** 3D Printing

**Uses advised against** Do not use in printers where temperatures exceed 300°C

### Details of the supplier of the safety data sheet

#### Initial Supplier Identifier

JMac Consulting Ltd.  
19 Norway Maple Dr  
Chatham, Ontario  
N7L 5C8  
Canada

#### Manufacturer Address

MakerBot Industries LLC  
One MetroTech Center, 21st Floor  
Brooklyn, NY 11201  
USA  
1 347 334 6800

### Emergency telephone number

**Emergency Telephone** +1 215 207 0061 - Americas - Multi lingual response 24/7

**E-mail address** RegulatoryCompliance@MakerBot.com

## 2. HAZARDS IDENTIFICATION

### Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### **Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### Other Information

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required If small particles are generated during further processing, handling, or by other means,

combustible dust concentrations in air may form See section 7 for more information See section 8 for more information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	CAS No	Weight-%	<sup>^</sup> Hazardous Material Information Review Act registry number (HMIRA registry #)	<sup>^^</sup> Date HMIRA filed	<sup>^^^</sup> Date exemption granted
Carbon mesoporous (Bound)	1333-86-4	0.3-1	-	-	-

Some of the chemicals have dust hazards. These hazards are not germane, as the chemicals are encapsulated in a fully reacted polymer

<sup>^</sup>Hazardous Material Information Review Act registry number (HMIRA registry #):

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<sup>^^</sup>Date HMIRA filed: - <sup>^^^</sup>Date exemption granted: -

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Inhalation** No hazards which require special first aid measures. Move to fresh air in case of accidental inhalation of vapors or decomposition products. Get medical attention.

**Eye contact** No hazards which require special first aid measures. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

**Skin contact** No hazards which require special first aid measures. If skin irritation or rash occurs: Get medical advice/attention.

**Ingestion** IF SWALLOWED. Rinse mouth thoroughly with water. Get immediate medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause light sensitivity which appears as a skin rash when exposed to sunlight.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Handle in accordance with good industrial hygiene and safety practice.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep tightly closed in a dry and cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical name	Alberta	British Columbia	Ontario TWA	Quebec
Carbon mesoporous (Bound) 1333-86-4	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering controls**                      Showers  
 Eyewash stations  
 Ventilation systems. If dust is generated during further processing provide exhaust ventilation.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**                      No special protective equipment required.

**Skin and body protection**                      No special protective equipment required. When handling hot material, use heat resistant gloves.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Minimize dust generation and accumulation.

**General hygiene considerations**                      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state**                                      Solid  
**Appearance**                                      Monofilament  
**Color**    Black  
**Odor**     No information available  
**Odor threshold**                                    Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	Not applicable	Not applicable
<b>Melting point / freezing point</b>	Not applicable	Not applicable
<b>Boiling point / boiling range</b>	Not applicable	Not applicable
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	Not applicable	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable	Not applicable
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	Not applicable	
<b>Lower flammability limit:</b>	Not applicable	
<b>Vapor pressure</b>	Not applicable	
<b>Vapor density</b>	Not applicable	Not applicable
<b>Relative density</b>	No data available	Not applicable
<b>Water solubility</b>	Insoluble in water	Not applicable
<b>Solubility in other solvents</b>	No data available	Not applicable

<b>Partition coefficient</b>	Not applicable	Not applicable
<b>Autoignition temperature</b>	Not applicable	Not applicable
<b>Decomposition temperature</b>	No data available	Not applicable
<b>Kinematic viscosity</b>	Not applicable	Not applicable
<b>Dynamic viscosity</b>	Not applicable	Not applicable
<b>Explosive properties</b>	No information available. Not applicable.	
<b>Oxidizing properties</b>	No information available. Not applicable.	

**Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	No information available.
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**Numerical measures of toxicity****Acute toxicity****Unknown acute toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon mesoporous (Bound) 1333-86-4	> 15400 mg/kg > 15400 mg/kg ( Rat )	-	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Carbon mesoporous (Bound) 1333-86-4	A3	-	-	X

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Respiratory system, Eyes, Lymphatic System.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated

**Persistence and degradability** Not readily biodegradable.

**Bioaccumulation** Bioaccumulative potential.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AIIC</b>	Complies

### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u><b>NFPA</b></u>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<u><b>HMIS</b></u>	<b>Health hazards</b> 0	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X
Chronic Hazard Star Legend		* = Chronic Health Hazard		

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA Ceiling	TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Exposure Limit) Skin designation
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Revision Date 15-12-2022

Revision Note No information available.

**Disclaimer**

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**End of Safety Data Sheet**