

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 26-Feb-2018 Revision Date 26-Feb-2018 Revision B

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) SDS-850171 EN E

Product Name FDM Nylon 6

PN (Part Number) 355-02250

Denmark

PR No N/A

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Additive manufacturing

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer

China Amines Co., Ltd

UNIT 1021, BEVERLEY COMMERCIAL CENTRE, 87-105CHATHAM ROAD SOUTH, TSIM SHA TSUI, KOWLOON

HONG KONG

Phone: +86 18938922889

For further information, please contact

E-mail address info@chinaamines.com

# 1.4. Emergency telephone number

• +44 1865 407333 - Global – English Language response

+44 1235 239670 - Europe - Multi lingual response +1 215 207 0061 - USA – Multi-lingual response +65 3158 1074 - Asia Pacific - Multi lingual response +61 2 8014 4558 - Australia - English Language response

+86 512 8090 3042 - China - Chinese response

Austria Poison Information Centre (AT): +43-(0)1-406 43 43

 Belgium
 Poison Centre (BE): +32 70 245 245

 Croatia
 Poison Control (CR): +385 1 2348 342

Czech Republic Poison Control (CS): +420 224 919 293, +420 224 915 402

 Denmark
 Poison Control Hotline (DK): +45 82 12 12 12

 Estonia
 Poison Control (ET): 16662, (+372) 626 93 90

 Finland
 Poison Information Centre (FI): +358 9 471 977

France ORFILA (FR): + 01 45 42 59 59

**Germany** Poison Centre Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and

English)

Greece Poison Information Center (EL): (0030) 2107793777

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**Hungary** Poison Information Service (HU): (+ 36-80) 201-199

IcelandPoison Information Center: 543 2222ItalyPoison Centre, Milan (IT): +39 02 6610 1029LatviaPoison Information Center (LV): +371 67042473

**Lithuania** Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378

**Luxembourg** Belgian Poison Center: (+352) 8002-5500

Netherlands National Poisons Information Center (NVIC): 030-274 8888

Norway Poison Center: 22 59 13 00

Portugal Poison Information Centre (PT): +351 21 330 3284 Spain Poison Information Service (ES): +34 91 562 04 20

**Sweden** 112 – ask for Poisons Information

## Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS] EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

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.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical name	EC No	CAS No	Weight-%	Classification according to	REACH
				Regulation (EC) No.	Registration
				1272/2008 [CLP]	Number
Carbon mesoporous (Bound)	215-609-9 435-640-3	1333-86-4	1-3	Not classified	No data available

Full text of H- and EUH-phrases: see section 16

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** Wash skin with soap and water when in contact with molten residues.

**Ingestion** Drink plenty of water. Do not induce vomiting without medical advice. Call a doctor

immediately.

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

Symptoms None known.

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

**Note to doctors**Treat symptomatically.

# **Section 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing media

Suitable Extinguishing Media Foam

Water

Carbon dioxide (CO2) Dry chemical

Alcohol resistant foam

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

None known.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

all sources of ignition. Sweep up to prevent slipping hazard.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Keep out of waterways.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Prevent dust cloud. Avoid dust accumulation in enclosed space. May form combustible dust

concentrations in air if small particles are generated during further processing, handling or

by other means. Remove all sources of ignition.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes, when handling

melted filament. If small particles are generated during further processing, handling, or by

other means, combustible dust concentrations in air may form. Use respirator.

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure Limits** 

Chemical name	European Union	United Kingdom	France	Spain	Germany
Carbon mesoporous	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	-
(Bound)		STEL: 7 mg/m <sup>3</sup>			
1333-86-4					
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Carbon mesoporous	-	TWA: 3.5 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
(Bound)				STEL: 7 mg/m <sup>3</sup>	
1333-86-4					
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Carbon mesoporous	-	-	TWA: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
(Bound)				STEL: 7 mg/m <sup>3</sup>	STEL: 15 mg/m <sup>3</sup>
1333-86-4					

**Derived No Effect Level (DNEL)**No information available.

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

**Engineering controls** If dust is generated during further processing provide exhaust ventilation.

Personal protective equipment

**Eye/face protection** Goggles. Safety glasses with side-shields.

**Skin and body protection** Impervious clothing.

**Respiratory protection** Minimise dust generation and accumulation. Wear respiratory protection.

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

**Environmental exposure controls** No information available.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Physical state Solid

AppearanceMonofilamentOdourSlightColourblack

Odour threshold No information available

Property Values Remarks • Method

No data available None known pН No data available None known Melting point / freezing point Boiling point / boiling range No data available None known Flash point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit No data available

Vapour pressure No data available None known None known Vapour density No data available Relative density No data available None known Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

**Explosive properties**No information available **Oxidising properties**No information available

9.2. Other information

Softening point
Molecular weight
VOC Content (%)
Liquid Density
Bulk density
Particle Size
Particle Size
No information available

# **Section 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity** None under normal use conditions.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

**Incompatible materials** Oxidising agent. Strong bases.

10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon monoxide. Carbon dioxide (CO2). Burning produces obnoxious and toxic fumes. Aldehydes.

# **Section 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Information on toxicological effects

**Symptoms** None known.

Numerical measures of toxicity

**Acute toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Carbon mesoporous (Bound)	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	

# 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 sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

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

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

#### **Ecotoxicity**

**Unknown aquatic toxicity**Contains 98.5 % of components with unknown hazards to the aquatic environment.

	١	Chemical name	Algae/aguatic plants	Fish	Toxicity to	Crustacea
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			microorganisms	
Carbon mesoporous	-	-	-	5600: 24 h Daphnia
(Bound)				magna mg/L EC50

## 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

12.4. Mobility in soil

**Mobility in soil** No information available.

12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

12.6. Other adverse effects

Other adverse effects No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# Section 14: TRANSPORT INFORMATION

#### **IMDG**

14.1 UN NumberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Marine pollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

**IBC Code** 

<u>RID</u>

14.1 UN NumberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental HazardNot applicable14.6 Special ProvisionsNone

ADR

14.1 UN Number Not regulated
14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

<u>IATA</u>

14.1UN NumberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental HazardNot applicable

14.6 Special Provisions None

# **Section 15: REGULATORY INFORMATION**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

**France** 

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Carbon mesoporous (Bound) 1333-86-4	RG 16,RG 16bis	-

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

15.2. Chemical safety assessment

Chemical Safety Report No information available

# **Section 16: OTHER INFORMATION**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method

Acute inhalation toxicity - Vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

**Revision Date** 

26-Feb-2018

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

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**End of Safety Data Sheet** 

