

Safety Data Sheet in accordance with
GB/T 16483 and GB/T 17519
2.85 mm PA6/66-GF20 black 3D filament

Substance key: 000000777262	First compiled on: 2019/01/23
Version : 1 - 0 / CHI	Revision Date: 2019/01/23
	Date of printing : 2019/03/12

1. PRODUCT AND COMPANY IDENTIFICATION

Trade name

2.85 mm PA6/66-GF20 black 3D filament

Material number: 312183

Substance name: polymer

Use of the Substance/Mixture

Industry sector : Printing industry
Type of use : Printing
Additive

Identification of the company

Clariant Chemicals (China) Ltd.

No.2, Lane 168 Linhong Road, Changning District
200335 Shanghai
Telephone : +86 21 648 5100

Information about the substance/preparation

New Business Development
Product Stewardship
E-mail address: SDS.China@clariant.com

Emergency telephone number: 21-37911379

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: monofilament
Colour	: black
Odour	: odourless

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity:
75.62 %

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The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 75.62 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 75.62 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 75.62 %

Other hazards which do not result in classification

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

No hazardous ingredients

4. FIRST AID MEASURES

- General advice : Get medical advice/ attention if you feel unwell.
- If inhaled : If inhaled, remove to fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
- In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.
- If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label
- Most important symptoms and effects, both acute and delayed : No symptoms known currently.
No hazards known at this time.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Foam
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO2)
Dry powder
- Specific hazards during : In case of fires, hazardous combustion gases are formed:

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firefighting	Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)
Specific extinguishing methods	: Evacuate endangered area, seal off area. Wear suitable protective equipment. Do not disperse powdered product in air.
Special protective equipment for firefighters	: Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear suitable protective equipment. Avoid dust formation. Keep away sources of ignition.
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	: Take up mechanically Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Risk of dust explosion. Treat recovered material as described in the section "Disposal considerations".
Prevention of secondary hazards	: Keep away sources of ignition, stop running engines, no smoking. Take up in the dry state without forming dust. Consider Recycling

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion	: Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air. Observe the general rules of industrial fire protection
Advice on safe handling	: When used and handled appropriately no special measures are needed Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take measures to prevent the build up of electrostatic charge.

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Avoidance of contact : See under section "Conditions to avoid"

Storage

Conditions for safe storage : Keep only in the original container.
Keep container tightly closed.

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place.
Handle and open container with care.
Keep away sources of ignition.

Materials to avoid : When used and handled as intended, none.
Keep away from food and drink.

Further information on storage stability : Stable at normal ambient temperature and pressure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : in case of dust, use dust-mask.
mask, comb.gas/particle filter

Eye/face protection : Safety glasses

Skin and body protection : working clothes

Hand protection
Remarks : Chemical resistant gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
Take off immediately all contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : monofilament

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Colour	: black
Odour	: odourless
Odour Threshold	: cannot be determined
pH	: not tested.
Melting range	: 195 - 198 °C
Boiling point	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Self-ignition	: not tested.
Burning number	: not tested.
Upper explosion limit / upper flammability limit	: not tested.
Lower explosion limit / Lower flammability limit	: not tested.
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not tested.
Density	: > 1.1 g/cm ³ (20 °C)
Bulk density	: not tested.
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: > 450 °C
Decomposition temperature	: 280 °C
Viscosity	
Viscosity, dynamic	: Not applicable

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Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.
Minimum ignition energy	: not tested.
Particle size	: not tested.

10. STABILITY AND REACTIVITY

Reactivity	: See section 10.3. "Possibility of hazardous reactions"
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. Potential dust explosion hazard. Stable
Conditions to avoid	: Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	: See under section "Conditions to avoid"
Hazardous decomposition products	: When handled and stored appropriately, no dangerous decomposition products are known

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	: Remarks: not tested.
Acute inhalation toxicity	: Remarks: not tested.
Acute dermal toxicity	: Remarks: not tested.

Skin corrosion/irritation

Product:

Remarks	: not tested.
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Serious eye damage/eye irritation

Product:

Remarks	: not tested.
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Respiratory or skin sensitisation

Product:

Remarks : not tested.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

No information available.

STOT - single exposure

Product:

Remarks : not available

STOT - repeated exposure

Product:

Remarks : not available

Repeated dose toxicity

Product:

Remarks : not tested.

Aspiration toxicity

Product:

No aspiration toxicity classification

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	Remarks: not tested.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: not tested.
Toxicity to algae	:	Remarks: not tested.
Toxicity to fish (Chronic toxicity)	:	Remarks: not tested.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not tested.
Toxicity to microorganisms	:	Remarks: not tested.

Persistence and degradability

Product:

Biodegradability	:	Remarks: not tested.
Physico-chemical removability	:	Remarks: not available

Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: not tested.
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Mobility in soil

Product:

Distribution among environmental compartments	:	Remarks: not tested.
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Other adverse effects

Product:

Environmental fate and pathways	:	Remarks: not available
Results of PBT and vPvB assessment	:	Remarks: no data available

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Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

14. TRANSPORT INFORMATION

IATA not restricted
IMDG not restricted
TDG_CN not restricted
RID not restricted

15. REGULATORY INFORMATION

National regulatory information

GB 6944-2012: Classification and code of dangerous goods.

GB 12268-2012: List of dangerous goods.

GB 190-2009: Packing symbol of dangerous goods.

GB 30000.2~29 – 2013 , Rules for classification and labelling of chemicals.

Law of the People's Republic of China on Prevention and Control of Occupational Diseases (Amended in 2011).

General rule for classification and hazard communication of chemicals

16. OTHER INFORMATION

Further information

Other information : Observe national and local legal requirements

Date format : yyyy/mm/dd

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada);

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ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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