

## SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

### KEXCELLED THE K8™ PC

| Product code: | Revision Number: | Revision date: | MSDS No.: |
|---------------|------------------|----------------|-----------|
| THE K8™ PC    | 01               | 06/05/2021     | KS023     |

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

|                                     |   |
|-------------------------------------|---|
| <b>Product name:</b>                | kexcelled 3D printing filament  |
| <b>Product code:</b>                | THE K8™ PC  |
| <b>Product Use:</b>                 | A filament to be used in 3D printing applications.  |
| <b>Supplier:</b>                    | NorthBridge New Material Technology(Suzhou) Co.,Ltd   |
| <b>Address:</b>                     | Building# B2, Chaoyang Industrial square, Caohu Industrial Park, Xiangcheng District, Suzhou. CN. |
| <b>Responsible/issuing person:</b>  | wilson@northbridge3d.com  |
| <b>Emergency telephone numbers:</b> | +86-(0512)-65801831   |

#### 2. HAZARDS IDENTIFICATION

|                                  |   |
|----------------------------------|---|
| <b>Health Effects:</b>           | Prolonged and /or repeated contacts: Risk of skin sensitization.When handled at high temperatures, can cause serious burns. |
| <b>Potential Health Effects:</b> | Eye contact: Contact with eyes may cause irritation.  |
| <b>Skin contact:</b>             | Substance may cause an allergic skin reaction.  |
| <b>Ingestion:</b>                | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |
| <b>Inhalation:</b>               | No particular interference was noted.Consult your doctor if necessary.  |
| <b>Target organ effects:</b>     | There were no target organ effects noted following ingestion or dermal exposure in animal studies.                          |

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical name:** Polycarbonate

**CAS Number:** 25037-45-0

**Weight:** >95%

**OSHA Exposure Limits:** None

**ACGIH Exposure Limits:** None

All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

**Other standards:** This material can generate Particulates Not Otherwise Classifiable (PNOC).

The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m<sup>3</sup> for inhalable particulates and 3 mg/m<sup>3</sup> for respirable particulates.

#### 4. FIRST AID MEASURES

**Inhalation:** If gas from the molten resin is inhaled, move the patient to a ventilated place and seek medical attention immediately.

**Skin contact:** In case of contact with rubber particles or rubber powder, rinse with water.

In case of contact with molten glue, flush the affected area and clothing with plenty of (soapy) water and seek medical attention immediately.

**Eye contact:** In case of contact with rubber particles or rubber powder, rinse with plenty of water for at least 15 minutes.

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|                            |  |
|----------------------------|--|
|                            | In case of contact with gas escaping from high temperature molten resin, rinse with plenty of water for at least 15 days Minutes.If you feel unwell, see a doctor immediately. |
| <b>Ingestion:</b>          | To induce vomiting, gargle with water. If you feel unwell, see a doctor immediately.   |
| <b>Notes to physician:</b> | No special antidotes are required, and supportive therapy is given according to the patient's symptoms.  |

#### 5. FIRE-FIGHTING MEASURES

|                                       |   |
|---------------------------------------|---|
| <b>Flammable properties:</b>          | Autoignition temperature: 500°C.  |
| <b>Suitable extinguishing media :</b> | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| <b>Hazardous decomposition:</b>       | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).<br>Sulphur compounds<br>Aldehydes<br>Acids   |
| <b>Special protective equipment:</b>  | As in any fire, wear self-contained breathing apparatus for firefighterspressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.          |
| <b>Under fire conditions</b>          | :Cool containers / tanks with spray water. Water mist may be used to cool closed containers.<br><br>In the event of fire and/or explosion do not breathe fumes. |
| <b>Other information:</b>             | Fine dust dispersed in air may ignite. Risks of ignition  |

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followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

#### 6. ACCIDENTAL RELEASE MEASURES

|                                   |  |
|-----------------------------------|--|
| <b>Personal precautions:</b>      | Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard. |
| <b>Environmental precautions:</b> | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.   |
| <b>Methods for cleaning up:</b>   | Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.   |

#### 7. HANDLING AND STORAGE

|                              |  |
|------------------------------|--|
| <b>Safe handling advice:</b> | Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. |
| <b>Storage conditions:</b>   | Store in cool place, avoid direct sunlight, rain and sharp temperature difference. No fireworks in storage.  |
| <b>Precautions:</b>          | No special precautions required.   |

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|                                  |   |
|----------------------------------|---|
| <b>Eye/face protection:</b>      | Wear safety glasses for general purpose.  |
| <b>Hand protection:</b>          | Wear gloves (product handled in molten state).  |
| <b>Skin and body protection:</b> | Wear protective clothing (product handled in molten state).   |
| <b>Respiratory protection:</b>   | In case of dust formation, wear a dust mask.<br><br>In case of insufficient ventilation, wear suitable respiratory equipment. |
| <b>Hygiene measures:</b>         | Avoid contact with skin, eyes, and clothing.  |

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                      |  |
|--------------------------------------|--|
| <b>Appearance:</b>                   | Clear,white,black,filaments. Solid at room temperature.  |
| <b>Color:</b>                        | Clear,white,black  |
| <b>Odour:</b>                        | Odorless .   |
| <b>pH:</b>                           | not determined.  |
| <b>Vapor pressure:</b>               | Not determined.  |
| <b>Vapor density:</b>                | Not determined.  |
| <b>Evaporation rate:</b>             | Not determined.  |
| <b>Density:</b>                      | 1.20g/cm <sup>3</sup>  |
| <b>Boilingpoint/range:</b>           | Not applicable. Decomposition temperature: 380 °C (716 °F).<br><br>Melting point/range:210 – 240 °C. |
| <b>Water solubility:</b>             | Insoluble.   |
| <b>Solubility in other solvents:</b> | Noneknown.   |

#### 10. STABILITY AND REACTIVITY

|                   |  |
|-------------------|--|
| <b>Stability:</b> | Stable under recommended storage conditions. |
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**Materials to avoid:** Oxidizing agents. . Strong bases.strong acid.

**Decomposition:** Not determined.

**Polymerization:** Not applicable.

#### 11. TOXICOLOGICAL INFORMATION

See section 3 for potential health effects. For detailed toxicological data, write or call the address or emergency number shown in section 1

#### 12. ECOLOGICAL INFORMATION

**Mobility:** No data available

**Bioaccumulation:** No data available

#### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.In accordance with local and national regulations.According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

#### 14. TRANSPORT INFORMATION

**IMDG:** Not regulated.

**ICAO/IATA:** Not regulated.

#### 15. REGULATORY INFORMATION

(Not meant to be all inclusive—selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express or implied is given. Regulatory requirements are

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subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

|                             |                       |
|-----------------------------|-----------------------|
| <b>WEEE/ROHS DIRECTIVE:</b> | CONFORMS              |
| <b>INVENTORIES:</b>         | EINECS (EU): Conforms |
| <b>TSCA (USA):</b>          | Conforms              |
| <b>DSL (Canada):</b>        | Conforms              |
| <b>AICS (Australia):</b>    | Conforms              |
| <b>ECL (Korea):</b>         | Conforms              |

#### 16. OTHER INFORMATION

The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and experience. No liability can be assumed for the accuracy and completeness of this information.