

# SAFETY DATA SHEET

**According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals**

Version 1.1

Issue date: 18/06/2019

Revision date: 11/01/2021

SDS Record Number: CSSS-TCO-010-131598

## 1. Identification of the material and supplier

**Material name:** C515

**Other Names:** -

**Recommended use:** 3D Printing Filament.

**Manufacturer:**

**Supplier(Manufacturer):** JF Polymers (Suzhou) Co., Ltd.

**Address:** Building 6&7&11, No.2, Hai Cheng Road, Chang Shu Economic & Technological Development Zone, 215513, People's Republic of China

**Contact person(E-mail):** Zhenggang Cai (zhenggang.cai@polymaker.com)

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**Importer**

**Company name:**

**Address:**

**Contact person(E-mail):**

**Telephone:**

**Fax:**

**Emergency number:**

## 2. Hazards identification

### GHS classification:

**Physical hazards:** Not classified

**Health hazards:** Not classified

**Environmental hazards:** Hazardous to the aquatic environment - acute hazard Category 1

### GHS label elements:

#### Hazard Pictograms :



**Signal word:** Warning

**Hazard statement:** Very toxic to aquatic life

### Precautionary statement:

**Prevention:** Avoid release to the environment.

**Response:** Collect spillage.

**Storage:** Not applicable.

**Disposal:** Dispose of contents/container in accordance with local regulation.

**Specific hazards:** Not applicable.

## 3. Composition/information on ingredients

| Components | CAS No. | Percent |
|------------|---------|---------|
|------------|---------|---------|

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|               |            |       |
|---------------|------------|-------|
| Polycarbonate | 25037-45-0 | ≥ 80% |
|---------------|------------|-------|

#### 4. First aid measures

|                            |   |
|----------------------------|---|
| <b>Inhalation:</b>         | If breathed in, move person into fresh air. If not breathing give artificial respiration. |
| <b>Skin:</b>               | Wash off with soap and plenty of water.   |
| <b>Eye:</b>                | Flush eyes with water as a precaution.  |
| <b>Ingestion:</b>          | Never give anything by mouth to an unconscious person. Rinse mouth with water.            |
| <b>Notes to physician:</b> | 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>Extinguishing media which must not be used for safety reasons:</b> | Not available.  |
| <b>Specific hazards arising from the chemical:</b>                    | In case of fire, the following can be released: carbon monoxide, carbon dioxide.  |
| <b>Fire Fighting:</b>   | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| <b>HAZCHEM code</b>   | None.   |

#### 6. Accidental release measures

|                                 |  |
|---------------------------------|--|
| <b>Personal precautions:</b>    | Provide adequate ventilation. Avoid breathing dust. Refer to section 8 of SDS for personal protection details. |
| <b>Containment procedures:</b>  | Do not let product enter drains.   |
| <b>Methods for cleaning up:</b> | Sweep up and shovel. Keep in suitable, closed and properly labelled containers for disposal.                   |

#### 7. Handling and storage

|                                       |  |
|---------------------------------------|--|
| <b>Precautions for safe handling:</b> | Avoid contact with skin and eyes. Avoid inhalation of vapor. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. |
| <b>Storage:</b>                       | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  |

#### 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Control parameters</b>                |  |
| <b>Occupational exposure limits</b>      | No exposure limits noted for ingredient(s).  |
| <b>Biological limit values:</b>          | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls:</b> | Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  |
| <b>Personal protective equipment:</b>    |  |
| <b>Eye/face protection:</b>              | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection:</b>                  | Wear protective clothing.  |
| <b>Respiratory protection:</b>           | Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| <b>Hand protection:</b>                  | For prolonged or repeated contact use protective gloves.   |

## 9. Physical and chemical properties

### Appearance:

|   |                    |
|---|--------------------|
| Physical state:                               | Solid              |
| Form:   | Solid              |
| Color:  | Black, White       |
| Odor:   | Not available      |
| Odour threshold:                              | Not available      |
| PH:   | Not available      |
| Melting point/Freezing point:                 | 220 °C             |
| Initial boiling point and boiling range:      | Not available      |
| Flash point:                                  | Not available      |
| Evaporation rate:                             | Not available      |
| Flammability (solid, gas) :                   | Not available      |
| Upper/lower flammability or explosive limits: | Not available      |
| Vapor pressure:                               | Not available      |
| Vapor density:                                | Not available      |
| Relative Density:                             | 1.20               |
| Solubility (H <sub>2</sub> O) :               | Insoluble in water |
| Partition coefficient (n-octanol/water) :     | Not available      |
| Auto-ignition temperature:                    | Not available      |
| Decomposition temperature:                    | Not available      |
| Viscosity, dynamic:                           | Not available      |
| Organic solvents:                             | Not available      |
| Water:  | Not available      |
| VOC (EC) :                                    | Not available      |
| Solids contents:                              | Not available      |
| Molecular Formula:                            | Not available      |
| Molecular Weight:                             | Not available      |

## 10. Stability and reactivity

|                                     |   |
|-------------------------------------|---|
| Reactivity:                         | The substance is stable under normal storage and handling conditions.                         |
| Chemical stability:                 | Stable at room temperature in closed containers under normal storage and handling conditions. |
| Possibility of hazardous reactions: | No dangerous reactions known.   |
| Conditions to avoid:                | Incompatible materials.   |
| Incompatible materials:             | Strong oxidizing agents   |
| Hazardous decomposition products:   | Carbon monoxide, carbon dioxide.  |

## 11. Toxicological information

### Toxicological data:

|                                    |                    |
|------------------------------------|--------------------|
| Acute toxicity:                    |                    |
| LD50(Oral, Rat):                   | Not available      |
| LD50(Dermal, Rabbit):              | Not available      |
| LC50(Inhalation, Rat):             | Not available      |
| Skin corrosion/Irritation:         | No data available. |
| Serious eye damage/irritation:     | No data available. |
| Respiratory or skin sensitization: | No data available. |
| Germ cell mutagenicity:            | No data available. |

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|                                |   |
|--------------------------------|---|
| <b>Carcinogenicity:</b>        | No data available.  |
| <b>Reproductive toxicity:</b>  | No data available.  |
| <b>STOT- single exposure:</b>  | No data available.  |
| <b>STOT-repeated exposure:</b> | No data available.  |
| <b>Aspiration hazard:</b>      | No data available.  |
| <b>Other information</b>       | This product has no known adverse effect on human health. |

## 12. Ecological information

### Toxicity:

| Acute toxicity |     | Time | Species | Method   | Evaluation | Remarks |
|----------------|-----|------|---------|----------|------------|---------|
| LC50           | N/A | 96h  | Fish    | OECD 203 | N/A        | N/A     |
| EC50           | N/A | 48h  | Daphnia | OECD 202 | N/A        | N/A     |
| EC50           | N/A | 72h  | Algae   | OECD 201 | N/A        | N/A     |

|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Persistence and degradability:</b> | Not available.              |
| <b>Bioaccumulative potential:</b>     | Not available.              |
| <b>Mobility in soil:</b>              | Not available.              |
| <b>Other adverse effects:</b>         | Very toxic to aquatic life. |

## 13. Disposal considerations

|   |  |
|---|--|
| <b>Disposal methods:</b>                    | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.   |
| <b>Waste from residues/unused products:</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging:</b>              | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.       |

## 14. Transport information

|                              |   |
|------------------------------|---|
| <b>ADG</b>                   |   |
| <b>UN number</b>             | 3077  |
| <b>Proper shipping name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polycarbonate)      |
| <b>Hazard class</b>          | 9   |
| <b>Packing group</b>         | III   |
| <b>Labels required</b>       | -   |
| <b>Special precautions</b>   | Read safety instructions, SDS and emergency procedures before handling. |
| <b>IATA</b>                  |   |
| <b>UN number</b>             | 3077  |
| <b>Proper shipping name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polycarbonate)      |
| <b>Hazard class</b>          | 9   |
| <b>Packing group</b>         | III   |
| <b>Special precautions</b>   | Read safety instructions, SDS and emergency procedures before handling. |
| <b>IMDG</b>                  |   |
| <b>UN number</b>             | 3077  |
| <b>Proper shipping name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Polycarbonate)      |
| <b>Hazard class</b>          | 9   |
| <b>Packing group</b>         | III   |
| <b>Environmental hazards</b> |   |
| <b>Marine pollutant</b>      | Yes   |
| <b>Special precautions</b>   | Read safety instructions, SDS and emergency procedures before handling. |

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

**Australia Medicines & Poisons Appendix A/B/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/4/5/6/7/8/9/10**

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)**

Not listed.

**Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

#### International regulations

**Stockholm Convention**

Not applicable

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

#### Inventory status:

| Country(s) or region        | Inventory name  | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)  | Not available          |
| Canada                      | Domestic /Non-Domestic Substances List (DSL) /(NDSL)  | Not available          |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)                                  | Not available          |
| Europe                      | European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS) | Not available          |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)                                    | Not available          |
| Korea                       | Existing Chemicals List (ECL)   | Not available          |
| New Zealand                 | New Zealand Inventory   | Not available          |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)                           | Not available          |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory   | Not available          |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

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**Indication of changes:** Version 1.1

**Training instructions:** Not applicable.

**Further information:** This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

**Notice to reader:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product, not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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