Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
   - Product form: Filament
   - Trade name: High Temperature Polycarbonate-ABS Alloy, Black
   - Product code: PCA1xxxx-BLK

1.2 Relevant identified uses of the substance or mixture and uses advised against
   For use in 3D printers at recommended temperatures

1.3 Details of the supplier of the safety data sheet
   Proto Plant
   12001 NE 60th Way, B-2
   Vancouver, WA 98682
   www.proto-pasta.com

   Emergency telephone number: 503-877-5268

Section 2: Hazards identification

2.1 Classification of the substance or mixture
   No classified

2.2 Label elements
   No labeling applicable

2.3 Other hazards
   No additional information applicable

2.4 Unknown acute toxicity (GHS US)
   Not applicable

Section 3: Composition/Information on ingredients

3.1 Substances/Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate</td>
<td>103598-77-2</td>
<td>&lt;65</td>
</tr>
<tr>
<td>Polycarbonate resin</td>
<td>25971-63-5</td>
<td>&lt;65</td>
</tr>
<tr>
<td>Acrylonitrile/butadiene/styrene resin</td>
<td>9003-56-9</td>
<td>&gt;30</td>
</tr>
<tr>
<td>Glycidyl methacrylate,ethylene,methyl methacrylate,terpolymer</td>
<td>51541-08-3</td>
<td>&lt;5</td>
</tr>
</tbody>
</table>

Section 4: First-aid measures

4.1 Description of first-aid measures
   First-aid measures after
   - Inhalation: Most to fresh air. If irritation persists, seek medical attention.
   - Skin contact: Wash with soap and water. For thermal burns, immediately flush with cold water. Do not attempt to remove polymer from skin. Obtain medical
Eye contact

First aid not likely required. Flush with water. Consult physician if symptoms persist.

Ingestion

Obtain immediate medical attention. For poison emergency in the US, call 1-800-222-1222.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing data: Water spray, dry powder, foam

Unsuitable extinguishing data: None known

5.2 Special hazards arising from the substance or mixture

Burning produces obnoxious and toxic fumes

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel

Sweep up to prevent slipping hazard

6.1.2 For emergency responders

Wear protective gear

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water systems.

6.3 Methods and material for containment and cleaning up

Clean up promptly with scoop or vacuum. Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

No additional information available

Section 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibles
Store in a well-ventilated place. Keep cool.

7.3 Specific end use(s)
No additional information available

Section 8: Exposure controls/personal protection

8.1 Control parameters
Where reasonably practicable, use local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation in places where dust is formed.

8.2 Exposure controls
Appropriate engineering controls
Ensure good ventilation of the work station
Hand protection
Protective gloves
Eye protection
Safety glasses
Skin and body protection
Impervious clothing
Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls
Avoid release into the environment

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Monofilament plastic, thin strand</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Light, sweet odor during processing; none at room temperature</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>270-290°C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible if heated</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.13 g/cc</td>
</tr>
<tr>
<td>Relative vapor density at 20°C</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not determined</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No test data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>340°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
9.2 Other information
   No other information available

Section 10: Stability and reactivity

10.1 Reactivity
   Stable when stored as recommended

10.2 Chemical Stability
   Stable when stored/used as recommended

10.3 Possibility of hazardous reactions
   None known

10.4 Conditions to avoid
   Temperatures above 230°C

10.5 Incompatible materials
   Oxidizing agents, strong acids, strong bases.

10.6 Hazardous decomposition products
   Burning produces obnoxious and toxic fumes. Aldehydes, carbon monoxide, carbon dioxide

Section 11: Toxicological information

11.1 Information on toxicological effects

   Acute toxicity        None known
   Skin corrosion/irritation Contact with molten material may cause thermal burns
   Serious eye damage/irritation Contact with dust/fumes may cause irritation
   Respiratory or skin sensitization None known
   Germ cell mutagenicity      Not determined
   Carcinogenicity             Suspected of causing cancer
   Reproductive toxicity       Suspected of causing birth defects or other reproductive harm
   STOT-single exposure        Not determined
   STOT-repeated exposure      Not determined
   Aspiration hazard           None known

Section 12: Ecological information

12.1 Toxicity
   Not determined

12.2 Persistence and degradability
   Not determined

12.3 Bioaccumulative potential
   Not determined

12.4 Mobility in soil
   Not determined

12.5 Results of PBT and vPvB assessment
   Not determined
Not applicable

**12.6 Other adverse effects**
No other information available

**Section 13: Disposal considerations**

**13.1 Waste treatment methods**
In accordance with local and national regulations. Do not contaminate ponds, waterways, or ditches with chemical or used container. For recycling, contact local waste disposal centers.

**Section 14: Transport information**
Not regulated under the US Department of Transportation

**Section 15: Regulatory information**

**15.1 US Federal regulations**
SARA 313: None

**15.2 International regulations**
Components are in compliance and/or are listed

**15.3 US State regulations**
Prop 65: This product contains chemicals, Ethylbenzene, Acrylonitrile, and 1,3-Butadiene, which are known to the State of CA to cause cancer.
This product contains a chemical, 1,3-Butadiene, which is known to the State of CA to cause birth defects or other reproductive harm.
Right to Know Hazardous Substance List-New Jersey: None

**Section 16: Other information**
Prepared by Protoplant Inc
Reason for Revision GHS compliance
Revision Date 10/09/2018

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