Section 1. Identification

1.1 Product name:
IC3D Standard R-PETG

1.2 Supplier details:
IC3D, Inc
1697 Westbelt Drive
Columbus, OH 43228
614-344-0414

1.3 Recommended use of the chemical and restrictions on use
Recommended use: General use – cosmetic, models, molding, everyday use
Restrictions on use: None known

Section 2. Hazards Identification

2.1 Classification of the substance
GHS classification in accordance with 29 CFR 1910.1200: Combustible dust

2.2 Label Elements
GHS label elements - Signal Word: Warning
Hazard Statements: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Precautionary Statements:
Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards: None known.

NFPA 704:

HMIS® IV:

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "X" represents a chronic hazard, while the "Y" represents the absence of a chronic hazard.

Section 3. Composition/Information on Ingredients Components
Chemical Name                                         | CAS – No.   | Concentration (% w/w) |
----------------------------------------------------|-------------|------------------------|
Polymer, contains post-industrial polymer           | Proprietary | 100                    |

**Section 4. First Aid Measures**

4.1 Description of first aid measures

*If inhaled*: Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
*In case of skin contact*: Wash off with soap and water. If symptoms persist, call a physician. Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Burns must be treated by a physician.
*In case of eye contact*: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
*If swallowed*: Seek medical advice.

4.2 Information for physician

**Most important symptoms and effects, both acute and delayed**: The molten product can cause serious burns. Treat symptomatically.

**Section 5. Firefighting Measures**

5.1 Extinguishing media

*Suitable extinguishing media*: Water spray, dry chemical, carbon dioxide (CO₂)
*Unsuitable extinguishing media*: Do not use a solid water stream as it may scatter and spread fire.

5.2 Specific hazards during firefighting: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
*Hazardous combustion products*: No hazardous combustion products are known.

5.3 Advice for firefighters:

*Special protective equipment for firefighters*: Wear an approved positive pressure self-contained breathing apparatus in addition to standard firefighting gear. Minimize dust generation and accumulation.

**Section 6. Accidental Release Measures**

6.1 Personal precautions, protective equipment, and emergency procedures:

Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.

6.2 Environment precautions: Avoid release to the environment.
6.3 Methods and materials for containment and cleaning up: Sweep up and shovel into suitable containers for disposal.

Section 7. Handling and Storage

7.1 Advice on protection against fire and explosion: Minimize dust generation and accumulation.

7.2 Advice on safe handling: Wash thoroughly after handling. Use only in areas provided with appropriate exhaust ventilation. Minimize dust generation and accumulation.

7.3 Conditions for safe storage: Keep tightly closed.

Section 8. Exposure Controls/Personal Protection

8.1 Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Engineering measures
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Personal protective equipment
Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Wear respiratory protection when its use is identified for certain contributing scenarios.

8.4 Hand protection
Remarks: Wear suitable gloves. When handling hot material, use heat resistant gloves.
Eye protection: Safety glasses. Wear a face shield when working with molten material.
Skin and body protection: Wear suitable protective clothing.
Protective measures: Ensure that eye flushing systems and safety showers are located close to the working place.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties
Safety Data Sheet
IC3D Standard Recycled PETG
Version: 1.3
Revision Date: March 31, 2021

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Filament</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Softening Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable, combustible solid</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>May form combustible dust concentrations in air during processing, handling, or other means.</td>
</tr>
<tr>
<td>Self-ignition</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper explosion limit/ Upper flammability limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Lower explosion limit/ Lower flammability limit</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>➢ 1 (estimated)</td>
</tr>
<tr>
<td>Solubilities: Water Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Thermal stability not tested. Low stability hazard expected at normal operating temperatures.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Dynamic</td>
</tr>
<tr>
<td></td>
<td>Kinematic</td>
</tr>
<tr>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td></td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

10.1 Reactivity: None reasonably foreseeable.

10.2 Chemical stability: Stable under normal conditions.

   Possibility of hazardous reactions: Stable
   Conditions to avoid: Minimize dust generation and accumulation.
   Incompatible materials: Strong oxidizing agents
   Hazardous decomposition products: Carbon monoxide, carbon dioxide (CO₂)

Section 11. Toxicological Information
Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity - Remarks: No data available
Acute inhalation toxicity - Remarks: No data available
Acute dermal toxicity - Remarks: No data available

Skin corrosion/Irritation
Not classified based on available information.

Product - Remarks: No data available

Serious eye damage/eye irritation
Not classified based on available information.

Product - Remarks: No data available

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

Product - Remarks: No data available

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Product - Remarks: This information is not available.

IARC - No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

OSHA - No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP - No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

Product - Effects on fertility: Remarks: No data available

STOT-single exposure
Not classified based on available information.
Product - Remarks: No data available

STOT-repeated exposure
Not classified based on available information.

Product - Remarks: No data available

Aspiration toxicity
Not classified based on available information.

Product - No data available

Information on likely routes of exposure
Product:
Inhalation - Remarks: None known.
Skin contact - Remarks: The molten product can cause serious burns
Eye contact - Remarks: The molten product can cause serious burns
Ingestion - Remarks: None known.

Section 12. Ecological Information

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

Section 13. Disposal Considerations

13.1 Waste treatment methods
Waste from residues: Dispose of in accordance with local regulations.

Section 14. Transport Information

14.1 International Regulations
IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

14.2 Domestic regulation
49 CFR: Not regulated as a dangerous good

Section 15. Regulatory Information

15.1 Safety, health, and environmental regulations specific for the substance or mixture
EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity:
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity:
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity:
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: Combustible dust

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
15.2 Proposition 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

15.3 The ingredients of this product are reported in the following inventories:
- **DSL**: All components of this product are on the Canadian DSL
- **AICS**: On the inventory, or in compliance with the inventory
- **ENCS**: On the inventory, or in compliance with the inventory
- **ISHL**: On the inventory, or in compliance with the inventory
- **KECI**: On the inventory, or in compliance with the inventory
- **PICCS**: On the inventory, or in compliance with the inventory
- **IECSC**: On the inventory, or in compliance with the inventory
- **TCSI**: On the inventory, or in compliance with the inventory
- **TSCA**: All substances listed as active on the TSCA inventory
- **TSCA List**: No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.

**Section 16. Additional Information**

**Full text of other abbreviations**
- AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; IC50 - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; QASAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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