I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name: Cube Tough™ filament
Chemical Family: Acrylonitrile, 1,3 Butadiene, and Styrene Co-polymer
Product Use: For use with the Cube® 3D Printer

Manufacturer:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-56-9</td>
<td>ABS (Acrylonitrile-butadiene-styrene-copolymer)</td>
<td>95 – 100%</td>
</tr>
</tbody>
</table>

II. COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>In the U.S./Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer Contact</td>
</tr>
<tr>
<td>For Information</td>
</tr>
<tr>
<td>Emergency</td>
</tr>
</tbody>
</table>

III. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye Contact: Fumes released from heated material may cause irritation or corneal injury due to mechanical action.

Skin Contact: Heated or molten material will produce thermal burns.

Inhalation: Fumes released from heated material may cause irritation to respiratory system.

Acute Effects of Exposure due to High Temperature and Thermal Decomposition: At Thermal Decomposition, very small amounts (within permissible exposure limits) decomposition products including but not limited to Carbon monoxide, Carbon dioxide, Hydrogen Cyanide, Styrene, Ethylbenzene and Acrylonitrile may be emitted. Exposure to high concentrations of these vapours and fumes could cause nausea, drowsiness and headache.

Medical Conditions Aggravated by Exposure

None known.

IV. FIRST AID MEASURES

Inhalation: Fumes released from heated material may cause respiratory irritation. In case of inhaling dense smoke, move affected person to fresh air. If respiratory irritation occurs or breathing becomes difficult seek medical attention immediately.

Skin: If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Use mineral oil to loosen the material. Seek medical attention for burns.

Eye contact: Flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

Ingestion: Ingestion is unlikely. If ingested, drink plenty of water and seek immediate medical attention. Do not induce vomiting.

Hazardous Materials Identification System (HMIS):

<table>
<thead>
<tr>
<th>Degree of hazard: 0 = low, 4 = extreme</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Personal Protection:

Skin and eye protection
V.  FIREFIGHTING MEASURES

Extinguishing Media: Use water and any other extinguishing media appropriate to surrounding conditions.

Special Fire Fighting Procedures: Provide fire fighter with self-contained breathing apparatus in positive pressure mode.

Hazardous Combustion Products: During a fire, combustion products including but not limited to Carbon monoxide, Carbon dioxide, Hydrogen Cyanide, Styrene, Ethylbenzene and Acrylonitrile may be emitted.

VI. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Keep out of irrigation ditches, sewers and water supplies.

Clean-Up Procedures: Sweep up and dispose of properly.

VII. HANDLING AND STORAGE

Handling Procedures: Keep material dry, avoid it from getting wet. Proper protection should be taken while handling molten resin during fabrication in order to avoid possible direct contact.

Storage Procedures: Keep this material in a cool (<35 °C (95 °F)), dry, well-ventilated place.

VIII. EXPOSURE CONTROLS/PERSOAL PROTECTION

Exposure Guidelines
Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

No occupational exposure limits (PEL/TWA) have been established for this product.

Engineering Controls
Good general ventilation should be sufficient for most conditions, Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT
If product is used as intended, no personal protective equipment is required.

Eyes/Face: NA
Skin: NA
Respiratory: NA
General: NA

IX. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black, Blue, Green, Magenta, Neon Green, Neon Orange, Red, Tan, Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid Filament</td>
</tr>
<tr>
<td>PH</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Vicat Softening Point</td>
<td>105°C</td>
</tr>
<tr>
<td>Solubility (H₂O)</td>
<td>Insoluble @ 20°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>0%</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>1000</td>
</tr>
</tbody>
</table>
X. CHEMICAL STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Temperatures over the decomposition temperature of 300°C.

Hazardous Decomposition: At high temperatures or upon burning, thermal decomposition products including but not limited to Carbon monoxide, Carbon dioxide, Hydrogen Cyanide, Styrene, Ethylbenzene and Acrylonitrile may be emitted.

Hazardous Polymerization: Will not occur.

XI. TOXICOLOGICAL INFORMATION

Product is safe when used as intended.

XII. ECOLOGICAL INFORMATION

Ecotoxicity

General Product Information: Not expected to be acutely toxic, but if ingested by waterfowl or aquatic life, may mechanically cause adverse effects.

Environmental Fate: No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment. This water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

XIII. DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information: This product is not a hazardous waste as specified in 40CFR 261. Dispose in accordance with all Federal, State, Provincial and Local regulations.

B: Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions: Avoid disposal. If possible, completely utilize product. Dispose of unused product in accordance with applicable Federal, State, Provincial and Local regulations.

XIV. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>US DOT</th>
<th>RID/ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>IMO</th>
<th>Canada TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Name</td>
<td>Not regulated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Class:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UN Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing Group:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

XV. REGULATORY INFORMATION

US FEDERAL

TSCA: All materials are listed on the TSCA Inventory

SARA 302 EHS List (40 CFR 355 Appendix A): Not listed

SARA 313 (40 CFR 372.65): Not listed

CERCLA (40 CFR 302.4): Not listed

SARA 312 Hazard Class: Health: Acute – Not listed Chronic – Not listed
STATE RIGHT-TO-KNOW STATUS

The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CA Prop. 65</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>None listed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Component Analysis - WHMIS

Canadian DSL List: ....... The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.

CANADIAN IDL: ............... None of the components are on this list

WHMIS:......................... Not classified

Component Analysis - Inventory

All components are listed on the TSCA and EINECS inventories or are exempt from listing requirements.

XVI. ADDITIONAL INFORMATION

MSDS Creation Date:..... May 13, 2012
MSDS Revision #:...........00-B
MSDS Revision Date:..... November 30, 2012
Reason for Revision:...... Disclaimer Change

For more information:..... www.3dsystems.com
800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)
803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)
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Key/Legend

ACGIH  = American Conference of Governmental Industrial Hygienists
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
CFR = Code of Federal Regulations
CPR = Controlled Products Regulations
DOT = Department of Transportation
DSL = Domestic Substances List
EINECS = European Inventory of Existing Commercial Chemical Substances
EPA = Environmental Protection Agency
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IDL = Ingredients Disclosure List
mg/Kg = milligrams per Kilogram
mg/L = milligrams per Liter
mg/m3 = milligrams per Cubic Meter
MSHA = Mine Safety and Health Administration
NA = Not Applicable or Not Available
NIOSH = National Institute for Occupational Safety and Health
NJTSR = New Jersey Trade Secret Registry
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
SARA = Superfund Amendments and Reauthorization Act
STEL = Short Term Exposure Limit
TDG = Transport Dangerous Goods
TSCA = Toxic Substances Control Act
WHMIS = Workplace Hazardous Materials Information System.