I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name: zp® 151 Powder

Chemical Family: Powder Mixture

Product Use: For use with ZPrinter® 3D inkjet printer

Manufacturer:

<table>
<thead>
<tr>
<th></th>
<th>In the U.S./Canada</th>
</tr>
</thead>
</table>
| Manufacturer Contact | 333 Three D Systems Circle  
Rock Hill SC, 29730 U.S.A. |
| For Information      | Phone: 803.326.3900 or  
Toll-free Phone: 800.793.3669 |
| Emergency            | 800.424.9300 - Chemtrec |

II. COMPOSITION INFORMATION

Component Information

Powder mixture.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulfate hemihydrate</td>
<td>10034-76-4</td>
<td>80-90</td>
</tr>
</tbody>
</table>

III. HAZARDS IDENTIFICATION

Emergency Overview

This product is not considered to be hazardous according to 29CFR 1910.1200 (Hazard Communication Standard).

IV. FIRST AID MEASURES

Eyes: Rinse with plenty of water
Inhalation: Move affected person to fresh air. If respiratory irritation occurs, seek medical attention immediately.
Skin contact: Flush skin with plenty of soap and water.
Ingestion: If ingested, drink plenty of water. Do not induce vomiting.

V. FIRE FIGHTING MEASURES

Flash Point: >360 °F (183 °C)  
Method Used: NA
Upper Flammable Limit (UFL): NA  
Lower Flammable Limit (LFL): NA
Auto Ignition: NA  
Flammability Classification: NA

General Fire Hazards: Thermal decomposition products can include sulphur oxides, calcium oxide, CO2 and CO.
Extinguishing Media: Use water mist, dry chemical, carbon dioxide, or chemical foam.
VI. ACCIDENTAL RELEASE MEASURES

Clean-Up Procedures: Sweep up. Place all waste in an appropriate container for disposal.

Personal precautions: Avoid dust formation. Do not breathe vapors/mist/gas.

Environmental precautions: Avoid discharge to sewer system.

VII. HANDLING AND STORAGE

Handling: Provide adequate ventilation during dust formation.

Storage: Store sealed in the original container at room temperature. Keep this material in a cool, dry, well-ventilated place.

VIII. EXPOSURE CONTROLS/PERSOAL PROTECTION

Exposure Guidelines

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

Component Analysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Component Manufacturer IEL (Internal Exposure Limit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulphate hemihydrate</td>
<td>6mg/m3</td>
</tr>
</tbody>
</table>

Technical measures to prevent exposure: Use local exhaust ventilation.

Instructional measures to prevent exposure: When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

Personal protection equipment:

Hand protection: Use impervious nitrile gloves.

Eye protection: Wear safety glasses or chemical goggles.

Body protection: Use apron and closed shoes.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder

Odor: Mild

Physical State: Powder

PH: NA

Vapor Pressure: NA

Vapor Density: NA

Boiling Point: NA

Melting/Freezing Point: 1450 °C

Solubility (H₂O): 0.83% (3 °C)

Specific Gravity: 2.6 - 2.7

Percent Volatile: <1%

Molecular Weight: NA

X. CHEMICAL STABILITY AND REACTIVITY

Conditions to avoid: Avoid wet/humid environment. Avoid dust formation.

Materials to avoid: Oxidizing materials, acids, strong bases, water, high humidity.

Hazardous decomposition products: Sulphur oxides, calcium oxide, carbon dioxide and carbon monoxide can be released at high temperatures or upon burning.

XI. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: NA

Acute effects (toxicity tests)

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium sulphate hemihydrate</td>
<td>&gt; 5000mg/kg (rats)</td>
<td>NA</td>
</tr>
</tbody>
</table>

General remarks:

Carcinogenicity: None of this product’s components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
XII.  ECOLOGICAL INFORMATION

Ecotoxicity: The aquatic toxicity of the product is unknown. No data are available for the components of this product.

Mobility: No information available for product.

Persistence and degradability: No information available for product.

Results of PBT assessment: No information available for product.

Other adverse effects: No information available for product.

XIII.  DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information: No EPA Waste Numbers are applicable for this product. This product is not defined or designated as hazardous by current provisions of RCRA – 40CFR261.

Disposal Instructions: Avoid disposal. If possible, completely utilize product. Dispose of unused product in accordance with applicable Federal, State, Provincial, or 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></td>
<td>Not Regulated</td>
<td></td>
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</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

XVI.  ADDITIONAL INFORMATION

MSDS Creation Date: January 17, 2013
MSDS Revision #: 00-A
MSDS Revision Date: NA
Reason for Revision: NA

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.