SAFETY DATA SHEET
Version-2

POLYMERIZED Objet VeroWhite Plus RGD835

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:
Product Name: Polymerized Objet VeroWhite Plus RGD835
Synonyms: none
Product type REACH: Article
CAS No.: N.A.
EC index No.: N.A.   NFPA code : N.D.
EINECS No.: N.A.   Molecular weight : N.A.
RTECS No. : N.A. Formula : N.A.

1.2 Use of the substance or the preparation:
Polymer: industrial use

1.3 Company/undertaking identification:
Stratasys GmbH
Airport Boulevard B210
D-77836 Rheinmünster, Germany
Tel: +49 722 977720
Emergency: +49 722 97772280
Fax: +49 722 97772990
objet-info@stratasys.com , www.stratasys.com

1.4 Telephone number for emergency:
- +49 722 97772280 - Europe - Multi lingual response
- +49 722 97772281 - Global - English Language response
- +1 978 495 5580 - USA - Multi-lingual response
- +85 2 975 70887 - Asia Pacific - Multi lingual response
- +86 15626070595 - China - Chinese response

2. Hazards Identification

- Not classified as dangerous in compliance with Regulation (EC) No 1907/2006

3. Composition information on ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>CAS No.</th>
<th>Conc. in %</th>
<th>Hazard symbol</th>
<th>Risks (R-phrases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] For R-phrases in full: see heading 16
[2] Substances with a Community workplace exposure limit
[3] PBT-substance

4. First aid measures

4.1 After inhalation:
- Respiratory problems: consult a doctor/medical service
- Remove the victim into fresh air

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Rinse with water
- Soap may be used

4.3 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water
- Do not apply neutralizing agents

4.4 After ingestion:
- Rinse mouth with water
- Consult a doctor/medical service if you feel unwell
5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Polyvalent foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- No data available

5.3 Special exposure hazards:
- Combustible
- Its dust is explosive with air

5.4 Instructions:
- No specific firefighting instructions required

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions:
See heading 8.2

6.2 Environmental precautions:
- Knock down/dilute dust cloud with water spray
- See Heading 13

6.3 Methods for cleaning up:
- Pick-up the material
  - Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe normal hygiene standards
- Avoid raising dust

7.2 Storage:
- Store at room temperature
- Store in a dry area
- Meet the legal requirements
- Keep away from: heat sources, ignition sources

<table>
<thead>
<tr>
<th>Storage temperature</th>
<th>15/25 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity limits</td>
<td>N.D. kg</td>
</tr>
<tr>
<td>Storage life</td>
<td>N.D. days</td>
</tr>
</tbody>
</table>

Materials for packaging:
- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
- See information supplied by the manufacturer
8. Exposure controls/Personal protection

8.1 Exposure limit values:
8.1.1 Occupational exposure:
   TLV-TWA : not listed
   TLV-STELE : not listed
   TLV-Ceiling : not listed
   OES-LTEL : not listed
   OES-STELE : not listed
   MEL-LTEL : not listed
   MEL-STELE : not listed
   MAK : not listed
   TRK : not listed
   MAC-TGG 8 h : not listed
   MAC-TGG 15 min. : not listed
   MAC-Ceiling : not listed
   VME-8 h : not listed
   VLE-15 min. : not listed
   GWBB-8 h : not listed
   GWK-15 min. : not listed
   Momentary value : not listed
   EC : not listed
   EC-STELE : not listed

8.1.2 Sampling methods:
   - No data available

8.2 Exposure controls:
8.2.1 Occupational exposure controls:
   - Work under local exhaust/ventilation
   
   Personal protection:
   a) Respiratory protection:
      - Respiratory protection not required in normal conditions
      - Dust formation: dust mask
   b) Hand protection:
      - Gloves
      Suitable materials: No data available
      - Breakthrough time: N.D.
   c) Eye protection:
      - Safety glasses
      - In case of dust production: protective goggles
   d) Skin protection:
      - Protective clothing
      Suitable materials: No data available

8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13
9. Physical and chemical properties

9.1 General information:

- **Appearance (at 20°C)**: Hard solid material
- **Odour**: Characteristic
- **Colour**: No data available

9.2 Important health, safety and environmental information:

- **pH value**: N.D.
- **Boiling point/boiling range**: N.D. °C
- **Flashpoint/flammability**: >100 °C
- **Explosion limits (explosive properties)**: N.D. vol% (°C)
- **Oxidising properties**: N.D.
- **Vapour pressure (at 20°C)**: N.D. hPa
- **Vapour pressure (at 50°C)**: N.D. hPa
- **Relative density (at 20°C)**: N.D.
- **Water solubility**: Insoluble
- **Soluble in**: No data available
- **Relative vapour density**: N.D.
- **Viscosity**: N.D. Pa.s
- **Partition coefficient n-octanol/water**: N.D.
- **Evaporation rate ratio to butyl acetate**: N.D.
- **Evaporation rate ratio to ether**: N.D.

9.3 Other information:

- **Melting point/melting range**: N.D. °C
- **Auto-ignition point**: N.D. °C
- **Saturation concentration**: N.D. g/m³
- **Specific conductivity**: N.D. pS/m

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- No data available

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources

10.3 Hazardous decomposition products:
- Upon combustion CO and CO₂ are formed and formation of small quantities of phosphorous oxides, nitrous vapours
11. Toxicological information

11.1 Acute toxicity:
- LD50 oral rat: N.D. mg/kg
- LD50 dermal rat: N.D. mg/kg
- LD50 dermal rabbit: N.D. mg/kg
- LC50 inhalation rat: N.D. mg/l/4 h
- LC50 inhalation rat: N.D. ppm/4 h

11.2 Chronic toxicity:
- EC carc. cat.: not listed
- EC muta. cat.: not listed
- EC repr. cat.: not listed
- Carcinogenicity (TLV): not listed
- Carcinogenicity (MAC): not listed
- Carcinogenicity (VME): not listed
- Carcinogenicity (GWBB): not listed
- Carcinogenicity (MAK): not listed
- Mutagenicity (MAK): not listed
- Teratogenicity (MAK): not listed
- IARC classification: not listed

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:
- Skin irritation tests: negative
- Unlikely to cause harmful effects

11.5 Chronic effects:
- Skin sensitization tests: negative
- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC, MAK)
- Not classified as toxic to reproduction (EC)
- Unlikely to cause harmful effects
12. Ecological information

12.1 Ecotoxicity:
- No data available
- **Effect on waste water purification**: no data available

12.2 Mobility:
- **Volatile organic compounds (VOC)**: N.D. %
- Insoluble in water
For other physicochemical properties see heading 9

12.3 Persistence and degradability:
- **biodegradation BODs**: N.D. % ThOD
- **water**: - No data available
- **soil**: T ½: N.D. days

12.4 Bioaccumulative potential:
- **log Pow**: N.D.
- **BCF**: N.D.

12.5 Results of PBT assessment:
- Not applicable, based on available data

12.6 Other adverse effects:
- **WGK**: No water pollutant (Classification in compliance with Verwaltungsvorschrift Wassergefährdender Stoffe (VwVwS) of 27 July 2005)
- **Effect on the ozone layer**: no data available
- **Greenhouse effect**: no data available

13. Disposal considerations

13.1 Provisions relating to waste:
- LWCA (the Netherlands) KGA category 03
- Remove waste in accordance with local and/or national regulations

13.2 Disposal methods:
- Dispose of as office refuse

13.3 Packaging/Container:
- No available data
14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

- UN number:
- CLASS:
- SUB RISKS:
- PACKING:
- PROPER SHIPPING NAME:

14.2 ADR (transport by road)

- CLASS: NOT SUBJECT
- PACKING:
- DANGER LABEL TANKS:
- DANGER LABEL PACKAGES:

14.3 RID (transport by rail)

- CLASS: NOT SUBJECT
- PACKING:
- DANGER LABEL TANKS:
- DANGER LABEL PACKAGES:

14.4 ADNR (transport by inland waterways)

- CLASS: NOT SUBJECT
- PACKING:
- DANGER LABEL TANKS:
- DANGER LABEL PACKAGES:

14.5 IMDG (maritime transport)

- CLASS: NOT SUBJECT
- SUB RISKS:
- PACKING:
- MFAG:
- EMS:
- MARINE POLLUTANT:

14.6 ICAO (air transport)

- CLASS: NOT SUBJECT
- SUB RISKS:
- PACKING:
- PACKING INSTRUCTIONS PASSENGER AIRCRAFT:
- PACKING INSTRUCTIONS CARGO AIRCRAFT:

14.7 Special precautions in connection with transport: not restricted for any mode of international transport

15. Regulatory information

15.1 EU Legislation:
Not classified as dangerous in compliance with Regulation (EC) No 1907/2006

15.2 National provisions:

The Netherlands:
Waterbezwaarlijkheid: N.B.

Germany:
WGK:
No water pollutant (Classification in compliance with Verwaltungsvorschrift Wassergefährdender Stoffe (VwVwS) of 27 July 2005)
16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE  
N.D. = NOT DETERMINED  
(*) = INTERNAL CLASSIFICATION (NFPA)

Exposure limits:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLV</td>
<td>Threshold Limit Value - ACGIH USA 2003</td>
</tr>
<tr>
<td>OES</td>
<td>Occupational Exposure Standards - United Kingdom 2003</td>
</tr>
<tr>
<td>MEL</td>
<td>Maximum Exposure Limits - United Kingdom 2003</td>
</tr>
<tr>
<td>MAK</td>
<td>Maximale Arbeitsplatzkonzentrationen - Germany 2002</td>
</tr>
<tr>
<td>TRK</td>
<td>Technische Richtkonzentrationen - Germany 2002</td>
</tr>
<tr>
<td>MAC</td>
<td>Maximale aanvaarde concentratie - The Netherlands 2003</td>
</tr>
<tr>
<td>VME</td>
<td>Valeurs limites de Moyenne d’Exposition - France 1999</td>
</tr>
<tr>
<td>VLE</td>
<td>Valeurs limites d’Exposition à court terme - France 1999</td>
</tr>
<tr>
<td>GWBB</td>
<td>Grenswaarde beroepsmatige blootstelling - Belgium 2002</td>
</tr>
<tr>
<td>GWK</td>
<td>Grenswaarde kortstondige blootstelling - Belgium 2002</td>
</tr>
<tr>
<td>EC</td>
<td>Indicative occupational exposure limit values - directive 2000/39/EC</td>
</tr>
</tbody>
</table>

I = Inhalable fraction  
R = Respirable fraction  
C = Ceiling limit

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>aerosol</td>
</tr>
<tr>
<td>d</td>
<td>damp (vapor)</td>
</tr>
<tr>
<td>du</td>
<td>dust</td>
</tr>
<tr>
<td>fa</td>
<td>Faser (fibre)</td>
</tr>
<tr>
<td>fi</td>
<td>Fibre</td>
</tr>
<tr>
<td>fu</td>
<td>Fume</td>
</tr>
<tr>
<td>p</td>
<td>poussiere (dust) part</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>r</td>
<td>Rook/rauch (fume)</td>
</tr>
<tr>
<td>st</td>
<td>Stof/Staub (dust)</td>
</tr>
<tr>
<td>ve</td>
<td>Vezel (fibre)</td>
</tr>
<tr>
<td>va</td>
<td>Vapour</td>
</tr>
<tr>
<td>om</td>
<td>Oil mist</td>
</tr>
<tr>
<td></td>
<td>Olienevel/Olnebel (oil mist)</td>
</tr>
</tbody>
</table>

Chronic toxicity:

K = List of the carcinogenic substances and processes - The Netherlands 2003

Full text of any R-phrases referred to under heading 2:

R22 : Harmful if swallowed
R23 : Toxic by inhalation
R36/38: Irritating to eyes and skin
R43 : May cause sensitization by skin contact