

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

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D-77836 Rheinmünster, Germany

T e l: +49 722 977720

Emergency: +49 722 97772280

Fax: +49 722 97772990

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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

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
None				

 (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

POLYMERIZED VeroWhite Plus RGD835

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

Storage temperature : 15/25 °C

Quantity limits : N.D. kg

Storage life : N.D. days

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-STEL : not listed
TLV-Ceiling : not listed
OES-LTEL : not listed
OES-STEL : not listed
MEL-LTEL : not listed
MEL-STEL : 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-STEL : 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

POLYMERIZED VeroWhite Plus RGD835

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.	
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/m ³
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

POLYMERIZED VeroWhite Plus RGD835

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 BOD₅** : N.D. % **ThOD**
- **water** : - No data available
- **soil : T_{1/2}** : N.D. **days**

12.4 Bioaccumulative potential:

- **log P_{ow}** : N.D.
- **BCF** : N.D.

12.5 Results of PBT assesment:

- 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:

- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 07 02 13 (waste plastic)
- 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

POLYMERIZED VeroWhite Plus RGD835

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)

POLYMERIZED VeroWhite Plus RGD835

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:

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

I : Inhalable fraction = **T**: Total dust = **E**: Einatembarer Aerosolanteil
R : Respirable fraction = **A**: Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a	: aerosol	r	: Rook/rauch (fume)
d	: damp (vapor)	st	: Stof/Staub (dust)
du	: dust	ve	: Vezel (fibre)
fa	: Faser (fibre)	va	: Vapour
fi	: Fibre	om	: Oil mist
fu	: Fume on		: Olienevel/Olnebel (oil mist)
p	: poussiere (dust) part		: particles

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