Product Safety Information Sheet

According to the requirements in Article 32 of Regulation (EC) No. 1907/2006

Vero Family - Polymerized

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Vero Family - Polymerized

Synonyms: MED610 - color clear; MED615RGD - color ivory; VeroGlaze, MED620 - color beige; VeroDent, MED670 - color beige; VeroDentPlus, MED690 - color beige; RGD810 - color clear; VeroWhite Plus, RGD835 - color white; VeroYellow, RGD836 - color yellow; RGD837 Vero pure white; VeroYellowV RGD838 - color yellow clear; VeroBlue, RGD840 - color blue; VeroClear, VeroCyan RGD841 - color cyan; VeroCyan RGD843 - color cyan; VeroCyanV RGD845 – color cyan clear; VeroGray, RGD850 - color gray; VeroMagenta, RGD851 - color magenta; VeroMagentaV RGD852 -color magenta clear; VeroBlackPlus, RGD875 - color black

Registration number REACH: Not applicable (article)

Product type REACH: Article

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Polymer: industrial use

1.2.2. Uses advised against

No uses advised against known

1.3. Details of the supplier of the Product Safety Information Sheet:

Supplier of the safety data sheet:

Stratasys GmbH
Airport Boulevard B 120
DE-77836 Rheinmünster
☎ +49 722 97 77 20
℡ +49 722 97 77 29 90
info@stratasys.com
www.stratasys.com

1.4. Emergency telephone number

24h/24h:

+44 1235 23 96 70 - Europe - Multi-lingual response
+44 1865 40 73 33 - Global - English Language response
+1 866 928 07 89 (Toll free) - USA - Multi-lingual response
+65 3158 10 74 - Asia Pacific - Multi-lingual response
+61 2 8014 45 58 - Australia - Multi-lingual response
+86 512 80 90 30 42 - China - Chinese response
+86 3 4578 93 41 - Japan

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Labelling does not apply to articles

2.3. Other hazards

Fine dust is explosive with air

SECTION 3: Composition/information on ingredients

This article does not contain any notifiable substances

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
If you feel unwell, seek medical advice.

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

After skin contact:
Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:
Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:
Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms
After inhalation:
No effects known.

After skin contact:
No effects known.

After eye contact:
No effects known.

After ingestion:
No effects known.

4.2.2 Delayed symptoms
No effects known.

4.3. Indication of any immediate medical attention and special treatment needed
If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:
Small fire: Quick-acting ABC powder extinguisher, Class A foam extinguisher, Water (quick-acting extinguisher, reel).
Major fire: Water, Class A foam.

5.1.2 Unsuitable extinguishing media:
Small fire: Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

5.2. Special hazards arising from the substance or mixture
Up on combustion: formation of CO, CO2 and small quantities of nitrous vapours.

5.3. Advice for firefighters

5.3.1 Instructions:
No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
No naked flames.

6.1.1 Protective equipment for non-emergency personnel
See heading 8.2

6.1.2 Protective equipment for emergency responders
Gloves. Protective clothing.

Suitable protective clothing
See heading 8.2

6.2. Environmental precautions
No data available

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

6.4. Reference to other sections
See heading 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities
7.2.1 Safe storage requirements:
Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements.

7.2.2 Keep away from:
Heat sources, ignition sources.

7.2.3 Suitable packaging material:
No data available

7.2.4 Non suitable packaging material:
No data available

7.3. Specific end use(s)
If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1 Occupational exposure
a) Occupational exposure limit values
If limit values are applicable and available these will be listed below.

b) National biological limit values
If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods
If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended
If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values
If applicable and available it will be listed below.

8.1.5 Control banding
If applicable and available it will be listed below.

8.2. Exposure controls
8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment
Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:
Not required for normal conditions of use. Dust production: dust mask with filter type P1.

b) Hand protection:
Not required for normal conditions of use.

c) Eye protection:
Not required for normal conditions of use. In case of dust production: protective goggles.

d) Skin protection:
Not required for normal conditions of use.

8.2.3 Environmental exposure controls:
See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical form</td>
<td>Hard solid material</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Colour</td>
<td>Variable in colour, depending on the composition</td>
</tr>
<tr>
<td>Particle size</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Reason for revision: 1.1, 11
Date of revision: 2018-01-16
Reference number: SDS06181P_EN/EGHS
Product number: 54792
Vero Family - Polymerized

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water ; insoluble</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No chemical group associated with explosive properties</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No chemical group associated with oxidising properties</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Heating increases the fire hazard.

10.2. Chemical stability
No data available.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
Precautionary measures

10.5. Incompatible materials
No data available.

10.6. Hazardous decomposition products
Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
11.1.1 Test results

Acute toxicity

Vero Family - Polymerized
No (test)data available

Corrosion/irritation

Vero Family - Polymerized

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Result</th>
<th>Method</th>
<th>Exposure time</th>
<th>Time point</th>
<th>Species</th>
<th>Value determination</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intraperitoneal</td>
<td>Not irritating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conclusion
Not classified as irritating to the skin

Respiratory or skin sensitisation

Vero Family - Polymerized
Vero Family - Polymerized

### Route of exposure

<table>
<thead>
<tr>
<th>Result</th>
<th>Method</th>
<th>Exposure time</th>
<th>Observation point</th>
<th>Species</th>
<th>Value determination</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not sensitizing</td>
<td>Guinea pig maximisation test</td>
<td>24, 48 hours</td>
<td>Guinea pig (male/female)</td>
<td>Experimental value</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion**
Not sensitizing for skin

### Specific target organ toxicity

**Vero Family - Polymerized**
No (test)data available

**Mutagenicity (in vitro)**

**Vero Family - Polymerized**

<table>
<thead>
<tr>
<th>Result</th>
<th>Method</th>
<th>Test substrate</th>
<th>Effect</th>
<th>Value determination</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>OECD 471</td>
<td>Bacteria (S. typhimurium)</td>
<td>Experimental value</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion**
Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

**Vero Family - Polymerized**
No (test)data available

### Reproductive toxicity

**Vero Family - Polymerized**
No (test)data available

### Toxicity other effects

**Vero Family - Polymerized**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Method</th>
<th>Value</th>
<th>Organ (male/female)</th>
<th>Effect</th>
<th>Exposure time</th>
<th>Species</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological reactivity</td>
<td>ISO 10993</td>
<td>1</td>
<td>Mouse (male/female)</td>
<td>No effect</td>
<td></td>
<td></td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

**Conclusion**
USP Plastic Class VI – 121°C

### Ecological information

#### 12.1. Toxicity

**Vero Family - Polymerized**
No (test)data available

#### 12.2. Persistence and degradability

Biodegradability in water: no data available

#### 12.3. Bioaccumulative potential

**Vero Family - Polymerized**

<table>
<thead>
<tr>
<th>Log Kow</th>
<th>Method</th>
<th>Value</th>
<th>Temperature</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion**
No bioaccumulation data available

#### 12.4. Mobility in soil

No (test)data on mobility of the components available

#### 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfill(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.
12.6. Other adverse effects

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)
None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)
Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union
Can be considered as non hazardous waste according to Directive 2008/98/EC.
07 02 13 (wastes from the MFSU of plastics, synthetic rubber and man-made fibres: waste plastic).

13.1.2 Disposal methods
Remove waste in accordance with local and/or national regulations. Dispose of as office refuse.

13.1.3 Packaging/Container
No data available

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number

Transport
Not subject

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous substance mark
No

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:
VOC content Directive 2010/75/EU

<table>
<thead>
<tr>
<th>VOC content</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No data available</td>
</tr>
</tbody>
</table>

National legislation Belgium
No data available

National legislation The Netherlands
Waterbezwaarlijkheid
Not applicable (article)

National legislation France
No data available

National legislation Germany
WGK
nwg; Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017

National legislation United Kingdom
SECTION 16: Other information

(*) INTERNAL CLASSIFICATION BY BIG

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %
ErCS0 EC50 in terms of reduction of growth rate
LC50 Lethal Concentration 50 %
LD50 Lethal Dose 50 %
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
OECD Organisation for Economic Co-operation and Development
PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process
vPvB very Persistent & very Bioaccumulative

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