

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Pegasus Plus Denture Base Powder
Product Code: 510, 511, 512, 514

Application: Heat cure acrylic denture base material

Company: Davis Schottlander & Davis Ltd
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2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

This substance is classified as non-hazardous according to GHS Regulation EC1272/2008

2.2 Label elements

In Accordance with Regulation EC 1272/2008

Signal: None
GHS Pictogram: None
Precautionary Statement
(Prevention) P281 – Use personal protective equipment as required
(Response) P312 – Call a POISON CENTRE or doctor/physician if you feel unwell
P330 – Rinse mouth
(Disposal) P501 – Dispose of contents/container in accordance with local Regulations

Hazardous components for labelling: None

In Accordance with Directive 67/548/EC or Directive 1999/45/EC

Labelling in accordance with EC Directives: None
Safety Phrases: S9 – Keep container in a well ventilated place.
S33 – Take precautionary measures against static discharges.
S36 – Wear suitable protective clothing

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

In Accordance with Regulations EC 1272/2008

Component	CAS No, EC Index No, REACH No, EINECS No.	Content	Hazard/category/statement
Poly Methyl Methacrylate	9011-14-7 618-466-4 Pre-registered	>98%	-

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In Accordance with Directive 67/548/EC or Directive 1999/45/EC

Component	CAS No.	Hazard symbol – r phrase	Content
Poly Methyl Methacrylate	9011-14-7	-	>98%

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: No special measures required.

Inhalation: The product is not a respiratory irritant.

Skin contact: The product is not skin irritating.

Eye contact: Flush with plenty of water. Consult a doctor if irritation occurs.

Ingestion: Drink plenty of water. Induce vomiting and consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water mist, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media: Do not use direct water stream.

5.2 Special hazards arising from the substance or mixture

No

5.3 Advice for firefighters

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required. No dangerous materials are released.

6.2 Environmental procedures

No special measures required.

6.3 Methods and material for containment and cleaning up

Clean up mechanically.

6.4 Reference to other sections

For personal protection see Section 8

For disposal considerations see Section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Only adequately trained personnel should handle the product. Use hygienic measures for dental practice.

7.2 Conditions of safe storage, including any incompatibilities

Store in a cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substance contains no components or products of decomposition according to Point 10, with limit values related to the place of work, which require monitoring. However, manufacturer recommends:

Poly Methyl Methacrylate	CAS No. 9011-14-7
WEL	10mg/m ³

8.2 Exposure controls

General protective measures: Usual precautionary measures should be employed when handling the material.

8.3 Personal Protective Equipment

Hygiene measures:	Use hygienic measures for dental practice.
Respiratory protection:	If workplace exposure limit is exceeded (leakage, spillage) apply dust mask with P2 particle filter.
Hand protection:	In practise, as the product is a preparation of several substances, resistance tests of glove materials cannot be conducted in advance and should be performed by the end user prior to application. A suitable glove type should be selected for each work environment. On the whole, for permanent contact in work areas, natural latex (NR) gloves are suitable.
Eye protection:	No required but safety goggles are recommended.
Body protection:	On handling larger quantities: light weight protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form:	Powder
Colour:	According to product specification
Odour:	None
Melting temperature:	n/a
Boiling temperature:	n/a
Flashpoint:	n/a
Ignition temperature:	>400°C
Lower Explosion Limit:	20g/m ³
Upper Explosion Limit:	Not determined
Vapour Pressure:	n/a
Relative Density:	1.2g/cm ³ @ 20°C
Relative Vapour Density:	n/a
Solubility in water:	Not soluble
Solubility (Qualitative):	Soluble in organic solvents
pH value:	n/a
Partition Co-efficient:	n/a
Viscosity (Dynamic):	Not determined

9.2 Other information

The product is not self-igniting or explosive. However formation of explosive powder/air mixtures is possible.

MATERIAL SAFETY DATA SHEET**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Avoid contact with other chemicals.

10.2 Chemical stability

Stable under normal temperature conditions and when used as directed. Decomposition can occur at elevated temperatures (>250°C), releasing potentially irritating vapours (methyl methacrylate).

10.3 Possibility of hazardous reactions

No hazardous reactions known when used as directed.

10.4 Conditions to avoid

The product is supplied in a stable form. Protect from humidity.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

Organic products of decomposition. No decomposition occurs when used as directed.

11. TOXICOLOGY INFORMATION**Information on toxicological effects**

Metabolism:

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Acute Oral Toxicity: LD₅₀ rat (PMMA) >10000mg/kg

Acute Inhalation Toxicity: Not toxic

Acute Dermal Toxicity: Not toxic

Caustic Burning/Skin Irritation: No irritant effect.

Serious Eye Damage/Irritation: No irritant effect.

Respiratory/Skin Sensitisation: None known.

Germ Cell Mutagenicity: Non mutagenic.

Carcinogenicity: Non carcinogenic.

Reprotoxicity/Teratogenicity: Not toxic.

General Information

Product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations. When used and handled according to specifications and GLP, no harmful effects are observed.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Aquatic environment: None, soluble in water (inert polymer).

12.2 Persistence and degradability

Persistence & degradability: None

Biodegradability: Product is solid, chemically inert and non-biodegradable. No negative effects are known.

12.3 Bioaccumulative potential

Bioaccumulation: No evidence for hazardous properties.

12.4 Mobility in soil

Mobility: The substance not water soluble.

No evidence for hazardous properties.

12.5 Results of PBT and vPvB assessment

Persistent, Bioaccumulative or toxic: n/a

Very persistent, very bioaccumulative: n/a

12.6 Other adverse effects

General information.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Substance: Waste is non-hazardous and can be disposed of in an incineration plant or approved landfill in accordance with local regulations.

Packaging: Can be re-used or recycled after cleaning.

List of Waste, LOW: 07 – Wastes from organic chemicals.
 07 02 – Waste from MFSU (manufacture, formulations, supply and use) of plastics, synthetic rubber and man-made fibres.
 07 02 13 – Waste plastic, acrylate co-polymers.
 Always check the given waste code according to the actual conditions of manufacturing, formulation or use in your facility.

14. TRANSPORT INFORMATION

14.1 UN number

14.2 UN proper shipping name

Land Transport ADR/GGVSEB
 Land Transport RID/GGVSEB
 Inland Waterways Transport ADNR/GGVSEB
 Shipment by Sea IMDG/GGVSee
 Marine pollutant No

Air Transport ICAO/IATA

14.3 Transport hazard class(es)

Product not classified as hazardous for transport.

14.4 Packing Group

None

14.5 Environmental hazards

Refer to Section 14.2, not applicable if unmentioned.

14.6 Special precautions for user

Refer to Section 14.2

15. REGULATORY INFORMATION

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

National Legislation

Product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations.

15.2 Chemical safety assessment

Labelling in accordance with GefStoffV/EC: The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials.

Hazard symbols: None

16. FURTHER INFORMATION

Out of Hours telephone No: UK National Chemical Emergency Centre +44 1865 407333

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.