

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

1.1 Product Name:	Enigma High Base Powder				
Product Code:	841, 842, 846, 847				
Application:	With Enigma High Base Liquid forms a heat cured acrylic denture base.				
1.2 Relevant identified uses of the substance or mixture and uses advised against;	For use in dental applications				
1.3 Company:	Davis Schottlander & Davis Ltd Fifth Avenue, Letchworth Garden City Herts SG6 2WD UK Tel: +44 (0)1462 480848 Fax: +44 (0)1462 482802 msds@schottlander.co.uk www.schottlander.com				
Revision Date:	03.08.2022	V3.0	Previous Revision	05.11.2013	V2.0
Next Review Date:	03.08.2025				

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Health None

2.2 Label elements

In Accordance with Regulation EC 1272/2008

Signal word None

GHS Pictogram None

Hazard Statement None

Precautionary Statement

(Prevention)	P280	Wear protective gloves/protective clothing/eye protection /face protection.
(Response)	P312	Call a POISON CENTER or doctor/physician if you feel unwell
	P330	Rinse mouth
(Disposal)	P501	Dispose of contents/container in accordance with local regulation
Hazardous components for labelling		None

2.3 Other hazards

None

3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1 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 - Exempt -	>98%	None

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. Do not 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

No

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.

7.3 Specific end use(s)
-

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
WEL

CAS No. 9011-14-7
10mg/m³

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 practice, 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:	Not 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 mixture is possible.

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

11.1 Information on toxicological effects

Metabolism	-	
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	

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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, insoluble in water (inert polymer).

12.2 Persistence and Degradability

Persistence and 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 is 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

13.1 Waste treatment methods

Substance: Waste is non-hazardous and can be disposed of in an incineration plant or approved landfill in accordance to local regulations.
Packaging: Can be re-used or recycled after cleaning.
List of Waste, LOW: 07 Wastes from organic chemicals,
07 02 Waste from the MFSU (manufacture, formulation, 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 Waterway 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, not applicable if unmentioned
- 14.6 Special precautions for user**
Refer to section 14
- 14.7 Transport in bulk according to the IBC code**
N/a

15. REGULATORY INFORMATION

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

National Legislation

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

COMMISSION REGULATION (EC) 2018/1480 of 4 October 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures and correcting Commission Regulation (EU) 2017/776.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out by the supplier.

16. FURTHER INFORMATION

The substance is supplied in a stabilised form. These data are based on our current knowledge and experience however do not constitute a guarantee for any specific product feature.

The instructions given here are valid only for the substance as supplied, not for derivatives resulting from its use.

Revision

This document differs from the previous version in the following areas:.

Title Revised to state in Accordance with Regulation (EU) 2015/830 and regulation (EC) No. 1272/2008

15 Inclusion of Statements regarding pertinent EU regulations.

16 Addition of detailed revision information.

This datasheet has been re-written and replaces all previous versions. The information and all further technical advice is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the substances in terms of their safety and handling requirements. The instructions given here are valid only for the product as supplied, not for derivatives resulting from its use. It implies no liability or other legal responsibility on our part. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection of incoming goods.