

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING****Product Name:** Synthetic polymer teeth.

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Use: Manufacture of dental and medical products

2. COMPOSITION/INFORMATION ON INGREDIENTS**PRODUCT DESCRIPTION**

Synthetic polymer teeth.
 Cross-linked methyl methacrylate resin

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification
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None				
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For full text of R phrases see section 16.

3. HAZARDS IDENTIFICATION

Combustible but not readily ignited.
 Low toxicity under normal conditions of handling and use.

3.1 NON-HAZARDOUS COMPONENTS

Various non-hazardous pigments.

4. FIRST-AID MEASURES

Inhalation: Treat as solid mass
 Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart.
 Obtain medical attention.
 Ingestion: Do not induce vomiting. Obtain medical attention if ill effects occur.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours.

Incompatible materials:	None known.
Extinguishing Media:	foam or CO ₂
Fire Fighting Protective Equipment:	A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Collect in containers for disposal using approved dust respirator.

7. HANDLING AND STORAGE**7.1 HANDLING**

Product as supplied:
 Store in original container in a cool dry place away from ignition sources

Process Hazards

Synthetic polymer teeth are usually processed in conjunction with reactive monomers and this may require the use of a higher level of PPE than that necessary for synthetic polymer teeth. Please also see the advice in Sections 8 and 11.

7.2 STORAGE

Synthetic polymer teeth are supplied on plastic or card board mount. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage Temperature: ambient.

7.3 SPECIFIC USES

Manufacture of dentures.

Not intended for thermal processing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

Respirators: A suitable dust mask or dust respirator with filter type P-S or FFP-S (EN143 or EN149) may be appropriate.

In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

Eye Protection: Safety spectacles / Full face shield.

Gloves: Not normally required, however use of gloves is recommended to comply with good occupational hygiene practice.

Other: Wear suitable protective clothing.

HAZARDOUS INGREDIENT(S)	LTEL 8hr TWA	LTEL 8hr TWA	STEL	STEL(15min)	Notes
	ppm	mg/m ³	ppm	mg/m ³	
Dust (total inhalable dust)	-	10	-	-	OES
Dust (respirable dust)	-	4	-	-	OES
Methyl Methacrylate vapour	50	208	100	416	OES

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	solid
Colour:	white/yellow
Odour:	none
pH (Value):	Not applicable.
Boiling Point (°C):	Not applicable.
Flash Point (°C):	Not applicable
Flammable Limits:	Not applicable.
Auto Ignition Temperature (°C):	Not applicable
Explosive Properties:	Not applicable
Oxidising Properties:	Not applicable.
Vapour Pressure (Pascals):	Not applicable.
Density:	Not applicable
Solubility (Water):	negligible
Solubility (Other):	Not available.
Partition Coefficient:	Not applicable.
Decomposition Temperature (°C):	~240
Bulk Density:	Not applicable
Additional Properties: Melting range:	150-230°C

10. STABILITY AND REACTIVITY

Hazardous Reactions: None known.

Hazardous Decomposition Product(s): Methyl methacrylate, carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Inhalation

Treat as solid mass

Skin Contact

Unlikely to cause skin irritation.

Contains greater than 0.1% residual (methyl methacrylate, dibenzoyl peroxide). During normal handling this will

not constitute a hazard. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they may produce an allergic reaction in persons already sensitised.

Eye Contact

Dust may cause irritation.

Ingestion

Low oral toxicity.

Long Term Exposure

No information available.

12. ECOLOGICAL INFORMATION**Environmental Fate and Distribution**

Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Toxicity

The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment

The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

13. DISPOSAL CONSIDERATIONS

This waste is considered to be non-hazardous. Clean scrap may be reprocessed. Incineration may be used to recover energy value. May be disposed of by landfill in accordance with local regulations. Certain packages are returnable. Please consult your local office for further details. Ensure that all packaging is disposed of safely.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 2001/58/EC.

The information contained does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation. No claim is made for completeness and all applicable laws and regulation have to be considered.

GLOSSARY

OES: Occupational Exposure Standard (UK HSE EH40)

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Full text of R Phrases

R2: Risk of explosion by shock, friction, fire or other sources of ignition

R36: Irritating to eyes.

R43: May cause sensitisation by skin contact.