

# GAP RESEARCH CO LTD

## SAFETY DATA SHEET

According to 1907/2006EC Article31

Date of Preparation: 01/2016

Revision: 01/2016

### Section 1 – Identification of substance /Preparation of Company

#### Product/: Details

Trade Name : Super Fix Liquid

Application of the substance : Denture Base Material

#### Manufacturer / Supplier:

GAP Research Co Ltd  
Unit 2 Ebbsfleet Business Par  
Stonebridge Road  
Northfleet, Kent  
DA11 9DZ

Emergency phone number: 01474 560618

Emergency fax number: 01474 564418

E-mail: gapdental@btconnect.com

### Section 2 - Hazards Identification

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Acute Tox. 3	H301 Toxic if swallowed.
Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Corr. 1C	H314 Causes severe skin burns and eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Eye Irrit. 2B	H320 Causes eye irritation.

**Additional information:** The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

#### Label elements

##### GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS02



GHS05



GHS08

Hazard-determining components of labelling:

Methyl Methacrylate

**Hazard statements**

H226 Flammable liquid and vapour  
 H315 Causes skin irritation  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

**Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
 Rinse skin with water/shower

**Section 3 - Composition / Information on Ingredients****Chemical characterization:**

**Description:** Mixture of substance listed below with no hazardous additions

Ingredient Name	CAS Number	%	S Phrase	R Phrase
Mehtyl Methacrylate Monomer	80-62-6	95	9-16-29-33	11-36/37/38-43

**Section 4 - First Aid Measures**

**After skin contact** : Wash thoroughly with water, if irritation persist seek medical attention  
**After inhalation** : Supply fresh air, consultant doctor in case of complaints  
**After eye contact** : Rinse opened eye for several minutes under running water,  
 if symptoms persist consult a doctor  
  
**After swallowing** : Rinse out mouth and then drink plenty of water. Do not induce vomiting  
 If symptoms persist consult doctor.

**Section 5 - Fire-Fighting Measures**

**Extinguishing media** :  
 CO2, extinguishing powder, sand  
**For safety reason unsuitable extinguishing agents:**  
 Water with full jet  
**Special hazards caused by the substance:**  
 No further relevant information available.  
**Protective equipment:**  
 Wear suitable protective equipments

**Section 6 - Accidental Release Measures**

**Personal precautions related safety precautions:**  
 Keep away from ignition sources  
 Avoid contact with skins and eyes  
 Wear Protective clothing  
**Environmental precautions:**  
 Do not allow to enter sewers /surface or ground water  
  
**Methods for cleaning/collecting:**  
 Ensure adequate ventilation  
 Absorb liquid components with liquid-binding material.  
 Dispose of the collected material according to regulations.



## Section 7 - Handling and Storage

### Handling

Product intended for denture repairs only

### Precautions for safe handling

Avoid contact with eyes.

Wear protective cloth when risk of exposure occurs

Use in a well ventilated area

Do not inhale dust / smoke / mist

### Information about fire - and explosion protection:

Do not spray on a naked flame or any incandescent material

Keep ignition sources away

Do not smoke



### Storage practices and warnings:

Store only in the original package.

Keep container tightly sealed.

Store in a cool location

## Section 8 - Exposure Controls / Personal Protection

### Control Parameter

Substance	CAS No.	LTEL ppm (8Hr TWA)	LTEL mg/m <sup>3</sup> (8Hr TWA)	STEL ppm	STEL mg/m <sup>3</sup>
Methyl methacrylate	80-62-6	50	208	100	416

### General protective and hygienic measure:

Avoid contact with eyes and skin.

Wash hand before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

During normal use personal protective equipment is not required. When handling bulk quantities observe the following rules :

**Breathing equipment:** Suitable respiratory protective device recommended



**Protective of hands** : Protective gloves



**Eye Protection** : Safety glasses



**Body Protection** : Protective work clothing

## Section 9 - Physical and Chemical Properties

### Information on basic chemical and physical properties

#### General information

Appearance	: Liquid
Colour	: Clear liquid
Odour	: Characteristic strong and acrid

#### Change in condition

pH (Value)	:Undetermined
Boiling Point	: 101 °C
Flash Point	: 10°C (TCC)
Melting Point	: Undermined
Vapour Pressure	: Not determined.
Density (g/ml)	: 0.943-1g/ml
Flash Point	: 10°C (TCC)
Solubility in Water	: N/A

## Section 10 - Stability and Reactivity

### Chemical stability

Stable in normal condition

### Reactivity

Will exothermically polymerise in the presence of initiators.

### Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications

### Incompatible materials:

Reacts with oxidizing agents.

Reacts with reducing agents

Reacts with peroxides and other radical forming substances.

Reacts with amines.

Reacts with heavy metals.

### Hazardous decomposition products:

Oxides of carbon. No decomposition occurs when used as directed.

## Section 11 - Toxicological Information

### Acute toxicity :

#### Primary irritant effect

Ingestion : Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract

Inhalation : May cause drowsiness or dizziness.

**On the skin** : Causes skin irritation. Repeated and/or prolonged contact may cause dermatitis..

**On the eye** : High vapour concentration will cause irritation.

**Sensitization** : Sensitization possible through inhalation.  
Sensitization possible through skin contact

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

## Section 12 - Ecological Information

### Aquatic toxicity:

No further relevant information available

**Persistence and degradability:** No further relevant information available.

**Behaviour in environmental systems** : N/A

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil** : No further relevant information available.

**Additional ecological information:**

**Results of PBT and vPvB assessment**

PBT: Not applicable. vPvB: Not applicable.

### Additional Information:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

## Section 13 - Disposal Considerations

### Product:

**Recommendation:** Must not be disposed with household garbage.

Do not allow product to reach sewage system.

### Uncleaned packaging:

**Recommendation** : Disposal must be made according to official regulations

## Section 14 - Transport Information

### UN-Number

DOT, ADR, IMDG, IATA : UN1247

### UN proper shipping name:

METHYL METHACRYLATE MONOMER, STABILIZED, MIXTURE

### Transport hazard class (es)

#### DOT



**Class** 3 Flammable liquids

**Label** 3

#### ADR



**Class** 3 Flammable liquids

**Label** 3



## IMDG IATA



<b>Class</b>	3 Flammable liquids
<b>Label</b>	3
<b>Packing group</b>	
<b>DOT, ADR, IMDG, IATA</b>	II
<b>Environmental hazards:</b>	
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Warning: Flammable liquids
<b>Danger code (Kemler)</b>	339
<b>EMS Number</b>	F-E, S-D
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable

When transported in the original packaging exempted quantities rules apply.



## Section 15 - Regulatory Information

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

#### Risk phrases:

11 – 36/37/38 – 43/

Highly flammable. Irritating to eyes, skin and respiratory system. May cause sensitisation by skin contact.

#### Safety phrases:

9 –16-29-33. Keep container in a well ventilated place.

Do not empty into drains.

Take precautionary measures against static discharges.

**Hazard Symbols:** Highly flammable and irritant.

**Label Name** : Methyl Methacrylate

#### Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## Section 16 – Other Information

This Information is given in good faith, being based on the latest knowledge available to GAP Research Co Ltd. No known relevant information has been omitted from the product information, risk information and safety precaution sheets. The user should not assume therefore, the product is suitable for any abnormal use. If the information provided is insufficient to ensure safety in any particular application, please contact GAP Research Co Ltd prior to use for further advice.

# GAP RESEARCH CO LTD

## SAFETY DATA SHEET

According to 1907/2006EC Article31

Date of Preparation: 01/2016

Revision: 01/2016

### Section 1 – Identification of substance /Preparation of Company

#### Product/ Details

Trade Name : Super Fix Powder

Application of the substance : Denture base material

#### Manufacturer / Supplier:

GAP Research Co Ltd  
Unit 2 Ebbsfleet Business Park  
Stonebridge Road  
Northfleet, Kent  
DA11 9DZ

Emergency phone number: 01474 560618

Emergency fax number: 01474 564418

E-mail: gapdental@btconnect.com

### Section 2 - Hazards Identification

#### Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation. .

Eye Irrit. 2B H320 Causes eye irritation.

**Additional information:** The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

#### Label elements

##### GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS)

#### Hazard pictograms



GHS07

**Signal word: Warning**

#### Hazard statements

Causes skin and eye irritation



**Precautionary statements:**

Wear protective gloves.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin: Wash with plenty of water.

**Other Hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**Section 3 - Composition / Information on Ingredients****Chemical characterization:**

**Description:** Mixture of substance listed below with nonhazardous additions

Ingredient Name	CAS Number	%
Poly Methyl Methacrylate	9011-14-7	97

**Section 4 - First Aid Measures****Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation** : Supply fresh air, consultant doctor in case of complaints

**After skin contact** : Wash thoroughly with water, if irritation persist seek medical attention

**After eye contact** : Rinse opened eye for several minutes under running water, if symptoms persist consult a doctor

**After swallowing** : Rinse out mouth. Do not induce vomiting. Drink plenty of water. If symptoms persist consult doctor.

**Section 5 - Fire-Fighting Measures****Extinguishing media** :

CO<sub>2</sub>, extinguishing powder, sand

**For safety reason unsuitable extinguishing agents:**

Water with full jet

**Special hazards caused by the substance:**

Formation of toxic gases is possible during heating or in case of fire

**Advice for fire-fighters**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Section 6 - Accidental Release Measures****Personal precautions related safety precautions:**

Keep away from ignition sources

Avoid contact with skins and eyes

Wear Protective clothing

**Environmental precautions:**

Do not allow to enter sewers /surface or ground water



**Methods for cleaning/collecting:**

- Ensure adequate ventilation
- Pick up gloved hand
- Prevent formation of dust
- Dispose of the collected material according to regulations.

**Section 7 - Handling and Storage**

**Handling**

Product intended for denture repairs only.

**Information for safe handling**

- Avoid contact with eyes.
- Wear protective cloth when risk of exposure occurs
- Use in a well ventilated area
- Avoid spillages, any spillages may cause floor to become extremely slippery

**Information about fire - and explosion protection:**

Dust can combine with air to form an explosive mixture



Do not smoke

**Storage practices and warnings:**

- Store only in the original package.
- Keep container tightly sealed.
- Store in a dry area, dry conditions in well sealed receptacles.
- Store away from food stuffs.

**Section 8 - Exposure Controls / Personal Protection**

**General protective and hygienic measure:**

- Avoid contact with eyes and skin.
- Wash hand before breaks and at the end of work.
- Keep away from foodstuffs, beverages and feed.
- During normal use personal protective equipment is not required. When handling bulk quantities observe the following rules

**Breathing equipment:** Suitable respiratory protective device recommended



**Protective of hands** : Protective gloves



**Eye Protection** : Safety glasses



**Body Protection** : Protective work clothing

## Section 9 - Physical and Chemical Properties

### Information on basic chemical and physical properties

#### General information

**Appearance** : Powder  
**Colour** : Pink  
**Odour** : Typically Methacrylate.

#### Change in condition

**PH value** : Not applicable  
**Boiling Point (°C)** : Not applicable  
**Melting Range (°C)** : 150-230  
**Vapour Pressure** : N/A  
**Density** : Not determined  
**Flash Point** : N/A  
**Ignition Temperature** : N/A  
**Solubility in Water** : No data available.

## Section 10 - Stability and Reactivity

### Reactivity

Non-reactive material.

### Chemical stability

Stable in normal condition

### Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available

### Hazardous decomposition products:

Methacrylate Monomer Vapours

### Hazardous Reactions:

None Known

## Section 11 - Toxicological Information

### Acute toxicity

**Ingestion** : low oral toxicity  
**On the skin** : Irritant to skin and mucous membranes.  
**On the eye** : Dust may cause irritation  
**Sensitization** : No sensitization possible through skin contact

### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

## Section 12 - Ecological Information

**Aquatic toxicity:** The product is predicted to have low toxicity to aquatic organisms.

### Persistence and degradability:

The product is non-biodegradable in soil.

There is no evidence of degradation in soil and water..

**Bioaccumulative potential:** The product has low potential for bioaccumulation.

### Mobility in soil

The product is predicted to have low mobility in soil.

### Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

### Other adverse effects

None known.



## Section 13 - Disposal Considerations

**Product:**

**Recommendation:** Must not be disposed with household garbage.  
Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation** : Disposal must be made according to official regulations

## Section 14 - Transport Information

**UN-Number**

**DOT, ADR, ADN, IMDG, IATA**

Not applicable

**UN proper shipping name**

**DOT, ADR, ADN, IMDG, IATA**

Not applicable

**Transport hazard class**

Not applicable

**Packing group**

Not applicable.

**Environmental hazards:**

Not applicable

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.

Signal word Warning

Hazard statements

Causes skin and eye irritation.

Precautionary statements Wear protective gloves.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If on skin: Wash with plenty of water.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## Section 16 – Other Information

This Information is given in good faith, being based on the latest knowledge available to GAP Research Co Ltd.. No known relevant information has been omitted from the product information, risk information and safety precaution sheets. The user should not assume therefore, the product is suitable for any abnormal use. If the information provided is insufficient to ensure safety in any particular application, please contact GAP Research Co Ltd prior to use for further advice.

**Hazard statements**

H319: Causes serious eye irritation.

H241: Heating may cause a fire or explosion.

**Precautionary statements** Avoid breathing dust/fume/gas/mist/vapours/spray

Wear protective gloves.