

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B plv.

Date of Issue: 05/05/2015

Page 1 of 5

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 *Product identifiers:* **Superpont C+B plv.**

1.2 *Relevant identified uses of the substance or mixture and uses advised against:*
Superpont - for plastic crowns and bridges, temporary crowns and bridges.
Superpont C+B - pressure-curing crown and bridge resin for direct modelling faceted crowns and bridges, jacket crowns, temporary crowns and bridges

1.3 *Details of the supplier of the safety data sheet:*

Business Name: **SpofaDental a.s.**
Company Headquarters: **Markova 238, 506 01 Jičín, The Czech Republic**
Company Identification Nr.: **63999447**
Telephone: +420 - 493 583 111
Fax: +420 - 493 583 333
E-mail: info@spofadental.com

1.4 *Telephone number for urgent situations:* +420 - 224 919 293
(National Toxicological Centre, Na bojišti 1, 120 00 Praha 2, CR)

2. INFORMATION REGARDING THE DANGERS OF THE SUBSTANCE OR PRODUCT

2.1 *Classification of the substance or mixture (accord. to Council Directive 67/548/EHS and 99/45/ES):*

The product is not classified as dangerous.

2.2 *Other hazards:*

Diffuse dust at high concentrations may form explosive mixtures with air.

3. INFORMATION REGARDING THE COMPOSITION OF THE SUBSTANCE OR PRODUCT

The powder contains the following dangerous substances:

Chemical name	Contents (%)	INECS	CAS	DSD-classific.	CLP-classific.
Dibenzoyl peroxide	< 1	202-327-6	94-36-0	E R2 Xi 36-43	Org. Perox. C H242 Eye Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Acute 1 H400

For R-phrases and H-phrases, see sect. 16 hereof.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B plv.

Date of Issue: 05/05/2015

Page 2 of 5

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Upon inhaling: Provide a sufficient supply of fresh air. With apparent health problems, seek medical assistance.

Upon contact with skin: Wash with water and soap.

Upon contact with eyes:

Wash out with plenty of lukewarm water. Seek medical assistance if irritation persists.

Upon ingestion: -

5. MEASURES FOR FIRE EXTINCTION

5.1 *Extinguishing agents:* powder, heavy or medium foam, CO₂

Unsuitable extinguishing agents: direct stream of water

5.2 *Special danger arising from the substance or mixture:*

Dust mixed with air produce an explosive mixture.

5.3 *Instructions for fire workers:* Use the enclosed protective garment.

6. MEASURES TO BE TAKEN IN CASE OF RANDOM LEAK

6.1 *Regulations for the protection of persons:*

Provide a sufficient supply of fresh air. Use rubber gloves.

6.2 *Safety regulations for the protection of the environment:*

Avoid leakage to aquatic systems, soil or vegetation.

6.3 *Methods and material for containment and cleaning:*

Thoroughly sweep and save.

6.4 *Reference to other sections:* -

7. INSTRUCTIONS FOR HANDLING AND STORAGE

7.1 *Instructions for handling:*

The product must be stored in a sealed container in a well-ventilated place, away from sources of ignition. When handling, smoking and eating is prohibited. Suitable protective garments and gloves must be used; direct contact with skin must be avoided. Personal sanitary measures must be adopted. After work, hands must be thoroughly washed in lukewarm water and soap.

7.2 *Conditions for safe storage of substances and mixtures, including any incompatibilities:*

To be stored at a temperature not exceeding 25 °C in a well sealed container.

Do not allow product to enter sewerage or watercourses.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B plv.

Date of Issue: 05/05/2015

Page 3 of 5

7.3 Specific end uses:

The product is intended for professional use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: No information is available for the mixture.

Dibenzoyl peroxide:

Permissible exposure limit PEL (mg/m^3): 5

Maximum permissible concentration NPK-P (mg/m^3): 10

Note: The substance causes sensitisation.

8.2 Reduction of exposition: The product must be handled in a well-ventilated area, local exhaustion is recommended.

Air passage protection: Sufficient aeration, local exhaustion

Eye protection: Goggles or shield

Hand protection: Rubber gloves

Skin protection: Working garment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

State (at 20°C): solid

Colour: depending on the required shade

Flammability: flammable dust

No other information is available.

9.2 Other informations:

No other information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: When mixed with the monomer polymerizes.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: No information is available.

10.4 Conditions to avoid: Heat.

10.5 Incompatible materials: Organic peroxides.

10.6 Dangerous decomposition products: Until the auto-ignition temperature isn't decomposed.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B plv.

Date of Issue: 05/05/2015

Page 4 of 5

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: Low toxicity if swallowed.

11.2,3 Caustic/irritation for skin: Skin or eye irritation is not likely.

11.3 Serious eye damage/eye irritation: Only irritation caused by dust.

11.4 Respiratory system sensitization / skin sensitization:

Respiratory system: Is not respiratory sensitizer.

Skin: It is not likely sensitization.

11.5 Germ cell mutagenicity: No information available.

11.6 Carcinogenicity: Not likely.

11.7 Reproductive toxicity: No information available

11.8 Specific organ toxicity: No information available.

11.9 Inhalation hazard: No information available.

11.10 Potential health effects: Dust causes irritation to the eyes.

12. ENVIRONMENTAL INFORMATION - for the mixture are not available

12.1 Toxicity:

The product is insoluble in water. It is assumed small effects on aquatic organisms.

12.2 Persistency and degradability:

No information available.

12.3 Bioaccumulation potential:

The product has low potential for bioaccumulation.

12.4 Soil mobility:

As intended, the product is not mobile in soil.

12.5 PBT and vPvB assessment:

The product isn't classified as a matter PBT or vPvB.

12.6 Other adverse effects:

Not subject to international restrictions.

13. DISPOSAL

13.1 Waste treatment methods:

Unusable waste and contaminated packages let the incinerated waste or be handled by a company authorised to dispose of dangerous waste.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B plv.

Date of Issue: 05/05/2015

Page 5 of 5

14. TRANSPORT INFORMATION

The product is not classified as dangerous for transport.

15. INFORMATION CONCERNING LEGAL REGULATIONS

15.1 Regulations applicable to safety, health and environment / specific regulations regarding the substance or mixture:

European Parliament and Council Directive (ES) 1907/2006

Act No. 350/2012 Coll. (applicable in the Czech Republic)

Act No. 201/2012 Coll., On air protection

Act No. 258/2000 Coll., On protection of public health, as amended

15.2 Chemical Safety Assessment: No information available.

16. OTHER INFORMATION

R-phrases used:

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

R36 - Irritating to eyes

R43 - May cause sensitisation upon contact with skin

H-phrases used:

H242 - Heating may cause a fire

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

Updates in the safety data sheet: Corrected ZIP code in the address in section 1. Corrected text of R-phrase in section 16.

The above information applies to customer packages unless stated otherwise, and fully expresses our current knowledge and experience. The product is assumed for use at worksites corresponding to its designation, and the instructions on the enclosed instruction sheet as well as the standard labour safety regulations for the handling of chemical products are assumed to be adhered to.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 1 of 8

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY / UNDERTAKING

1.1 *Product identifiers:* **Superpont C+B liq.**

1.2 *Relevant identified uses of the substance or mixture and uses advised against:*
Superpont liq. - the liquid component for mixing with resin for plastic crowns and bridges, temporary crowns and bridges.

Superpont C+B liq. - the liquid component for mixing with resin for pressure-curing crown and bridge resin for direct modeling faceted crowns and bridges, jacket crowns, temporary crowns and bridges.

1.3 *Details of the supplier of the safety data sheet:*

Business Name: **SpofaDental a.s.**
Company Headquarters: **Markova 238, 506 01 Jičín, The Czech Republic**
Company Identification Nr.: **63999447**
Telephone: +420 - 493 583 111
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E-mail: info@spofadental.com

1.4 *Telephone number for urgent situations:* +420 - 224 919 293
(National Toxicological Centre, Na bojišti 1, 120 00 Praha 2, CR)

2. INFORMATION REGARDING THE DANGERS OF THE SUBSTANCE OR PRODUCT

2.1 *Classification of the substance or mixture (accord. to CLP):*

Flam. Liq. 3	H225 - Highly flammable liquid and vapour.
Skin Irrit. 2	H315 - Causes skin irritation.
Skin Sens. 1	H317 - May cause an allergic skin reaction.
Eye Irrit. 2	H319 - Causes serious eye irritation.
STOT SE 3	H335 - May cause respiratory irritation.

2.2 *Label elements:*

Hazard pictograms:



Signal word:

DANGER

Hazard statements:

Superpont liq.

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 2 of 8

Superpont C+B liq.

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

Safety phrases: P210,262,270

Keep away from heat/sparks/open flames/hot surfaces - No smoking. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product.

2.3 Other hazards:

Caustic liquid acrylic resin, and can cause sticking together of parts or turbidity perspex visors.

3. INFORMATION REGARDING THE COMPOSITION OF THE SUBSTANCE OR PRODUCT

The liquid contains the following dangerous substances:

Chemical name	Contents (%)	INECS	CAS	DSD-classific.	CLP-classific.
Methyl methacrylate	< 50	201-297-1	80-62-6	F R11 Xi 37/38 -43	Flam. Liq. 2 H225 Skin Irrit. 2 H315 STOT SE 3 H335 Skin Sens. 1 H317
Triethylenglycol dimethacrylate	< 50	203-652-6	109-16-0	Xi 36/37/38 -43	Skin Irrit. 2 H315 STOT SE 3 H335 Eye Irrit. 2 H319

For R-phrases and H-phrases, see sect. 16 hereof.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Upon inhalation: Provide a sufficient supply of fresh air. Start intensive ventilation or disabilities bring to fresh air. With apparent health problems, seek medical assistance.

Upon contact with skin: Wash with water and soap after the use regenerative cream.

Upon contact with eyes: Wash out with lukewarm water for 15 minutes. Seek medical assistance if irritation persists.

Upon ingestion: Rinse mouth. Do not induce vomiting. Seek medical assistance.

5. MEASURES FOR FIRE EXTINCTION

5.1 Suitable extinguishing agents:

powder, heavy or medium foam, CO₂

Unsuitable extinguishing agents:

direct stream of water

5.2 Special danger arising from the substance or mixture:

Vapours in mixture with the air at 2.1-2.5 vol.% produce an explosive mixture.

5.3 Instructions for fire workers:

Use the enclosed protective garment.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 3 of 8

6. MEASURES TO BE TAKEN IN CASE OF RANDOM LEAK

6.1 Safety regulations for the protection of persons:

Provide a sufficient supply of fresh air, avoid direct contact with the product.
Use rubber gloves and, depending on the extent of leak, also a rubber apron.
Remove sources of ignition.

6.2 Safety regulations for the protection of the environment:

Avoid leakage to the aquatic system, soil or vegetation.

6.3 Methods and material for containment and cleaning:

The product must be thoroughly removed using an absorbent.

6.4 Reference to other sections: -

7. INSTRUCTIONS FOR HANDLING AND STORAGE

7.1 Instructions for handling:

The product must be stored in a sealed container in a well-ventilated place, away from sources of ignition. When handling, smoking and eating is prohibited.
All nearby electrical appliances must have explosion-proof design. Measures to prevent static discharges must be taken. The product may not be emptied in public sewerage systems. Suitable protective garments and gloves must be used; direct contact with skin must be avoided. Personal sanitary measures must be adopted.
After work, hands must be thoroughly washed in lukewarm water and soap.

7.2 Conditions for safe storage of substances and mixtures, including any incompatibilities:

To be stored at a temperature not exceeding 25 °C in a well sealed container.
Do not allow product to enter sewerage or watercourses.

7.3 Specific end uses:

The product is intended for professional use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: No information is available for the mixture.

Methyl methacrylate:

Permissible exposure limit PEL (mg/m³): 50

Maximum permissible concentration NPK-P (mg/m³): 150

Note: With exposure, penetration through skin has a considerable effect and the product causes sensitisation.

8.2 Reduction of exposition: The product must be handled in a well-ventilated area, away from naked flame or static discharges. Local exhaustion is recommended.

Air passage protection: Sufficient aeration, local exhaustion

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 4 of 8

<i>Eye protection:</i>	Goggles or shield
<i>Hand protection:</i>	Gloves - material Buthyl EN374
<i>Skin protection:</i>	Working garment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

State (at 20°C):

liquid

Colour:

clear, colourless

Flammability:

flammable liquid

Smell:

typical

Solubility in water at 20°C:

slightly soluble

Solubility (other):

well miscible with other organ. solvents

Other data are available only for components:

Methyl methacrylate:

Boiling point (°C):

ca 100

Flash point (°C):

ca 10 (closed drain the crucible)

The lower explosion limit (%v/v):

2.1

The upper explosion limit (%v/v):

12.5

Vapour pressure (at 20°C):

3600 Pa

Auto ignition temperature (°C):

421

Density:

0.949 at 15.5°C

Triethylenglycoldimethacrylate:

Boiling point (°C):

170 - 172 (at 7 hPa)

Flash point (°C):

ca 167 (closed drain the crucible)

Vapour pressure (at 20°C):

No information available.

Auto ignition temperature (°C):

No information available.

Density:

No information available.

9.2 Other informations: -

10. STABILITY AND REACTIVITY

10.1 Reactivity: Exothermically polymerized in the presence of initiators.

10.2 Chemical stability: Mixture is stable under normal conditions.

10.3 Conditions to avoid: Prevent direct sunlight - may cause polymerization.

10.4 Incompatible materials: Strong acids, strong oxidizing agents.

10.5 Dangerous decomposition products: No information available.

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 5 of 8

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

Methyl methacrylate:

<i>LD₅₀ per os, brown rat:</i>	above 5000 mg/kg
<i>LD₅₀, skin, rabbit:</i>	above 5000 mg/kg
<i>LC₅₀, inhaled, brown rat, 4 hrs:</i>	29.8 mg/litre

Triethylenglycoldimethacrylate:

<i>LD₅₀ per os, brown rat:</i>	above 10.837 mg/kg
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11.2,3 Caustic/irritation for skin, serious eye damage/eye irritation:

The product causes irritation of eyes, skin and mucosal.

11.4 Respiratory system sensitization / skin sensitization: No information available.

11.5 Germ cell mutagenicity:

Methyl methacrylate:

Mutagenicity in germ cells of Salmonella typhinumium (TA1535, 1537, 97, 98, 100) - the results are negative (OECD 471).

11.6 Carcinogenicity:

None of the ingredients have not been identified by IARC 0.1% as possible or confirmed carcinogen.

11.7 Reproductive toxicity:

Methyl methacrylate:

Only maternal toxicity NOAEC (mouse) = 9000ppm, NOAEC (rat) > 2028ppm.

11.8 Specific organ toxicity:

Inhalation - may cause irritation of the respiratory tract.

11.9 Inhalation hazard: No information available.

11.10 Potential health effects: Causes respiratory tract irritation. Causes skin irritation.

On humans, high exposure to vapours may cause dizziness, headaches, weakness, drowsiness, or unconsciousness if the exposure is extremely high. It has a sensitisation effect upon contact with skin.

12. ENVIRONMENTAL INFORMATION

No information is available for the product.

Methyl methacrylate:

12.1 Toxicity:

<i>LC₅₀, 96 hrs, fishes:</i>	above 79 mg/litre
<i>LD₅₀, 48 hrs, daphnia:</i>	69 mg/litre
<i>EC₅₀, 96 hrs, algae:</i>	170 mg/litre

SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 6 of 8

12.2 Persistency and degradability:

Readily biodegradable.

Methyl methacrylate:

Chemical oxygen demand (CSK (COD)) = 88 (28 days).

Basic biodegradation, typical for methyl methacrylate. Removal of dissolved organic carbon (removal ROU):> 95% (28 days).

12.3 Bioaccumulation potential:

The product has low potential for bioaccumulation.

12.4 Soil mobility:

As intended, the product is highly mobile in soil.

12.5 PBT and vPvB assessment:

The product isn't classified as a matter PBT or vPvB.

12.6 Other adverse effects:

Not subject to international restrictions.

13. DISPOSAL

13.1 Waste treatment methods:

Unusable waste and contaminated packages must be burnt in an incineration plant or handled by a company authorised for dangerous waste disposal.

14. TRANSPORT INFORMATION

14.1 Transport on land:

<i>ADR/RID:</i>	<i>Class:</i> 3	<i>Packaging class:</i>	II
<i>Official name:</i>	Methyl methacrylate, monomer, stabilised		
<i>UN number:</i>	1247		
<i>Note:</i>	Sticker 3		
<i>Notice:</i>	The information applies only to packages containing 8 kg of the product. In all other cases this is less than limit amount.		

Inland transport on water:

<i>ADN/ADNR</i>	<i>Class:</i> 3	<i>Code:</i>	F1
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Sea transport:

<i>IMDG</i>			
<i>Class:</i> 3.2	<i>UN number:</i> 1247	<i>Packaging type:</i>	II.
<i>Technical name:</i>	Methyl methacrylate, monomer, inhibited		
<i>Note:</i>	Sticker: 3		

Air transport:

<i>ICAO/IATA</i>			
<i>Class:</i> 3.2	<i>UN number:</i> 1247	<i>Packaging type:</i>	II.



SAFETY DATA SHEET

as per 1907/2006/ES

SpofaDental
A Kerr Company

Superpont C+B liq.

Date of Issue: 05/05/2015

Page 7 of 8

Technical name: Methyl methacrylate, monomer, inhibited

Note: Sticker: Flammable liquid

15. INFORMATION CONCERNING LEGAL REGULATIONS

15.1 Regulations applicable to safety, health and environment / specific regulations regarding the substance or mixture:

European Parliament and Council Directive (ES) 1907/2006

Act No. 350/2012 Coll. (applicable in the Czech Republic)

Act No. 201/2012 Coll., On air protection

Act No. 258/2000 Coll., On protection of public health, as amended

15.2 Chemical Safety Assessment: No information available.

16. OTHER INFORMATION

R-phrases used:

R11 - Highly flammable

R36/37/38 - Irritating to eyes, respiratory system and skin

R37/38 - Irritating to respiratory system and skin

R43 - May cause sensitisation by skin contact

H-phrases used:

H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Updates in the safety data sheet: Corrected ZIP code in the address in section 1.

The above information applies to customer packages unless stated otherwise, and fully expresses our current knowledge and experience. The product is assumed for use at worksites corresponding to its designation, and the instructions on the enclosed instruction sheet as well as the standard labour safety regulations for the handling of chemical products are assumed to be adhered to.