

Safety Data Sheet

According to 1907/2006/EC, Article 31

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Solabond SP Self Etching Light Curing Adhesive

Article number: 3005054

1.2 Relevant identified uses of the substance or mixture and uses advised against

Dental bonding agent for professional use in restorative dental procedures.

Application of the substance / the mixture Dental Bonding Material

1.3 Details of the supplier of the safety data sheet

Manufacturer /supplier:

Unit 3C, 88 Peterborough Road, London SW6 3HH, United Kingdom

Tel: +44 20 3689 9046

www.trentdent.co.uk

E-mail: info@trentdent.co.uk

Further information obtainable from: R&D, Trent Dent Products Limited, Tel: +44 20 3689 9046

1.4 Emergency telephone number:

Tel: +44 20 3689 9046, Trent Dent Products Limited (9:00 - 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

2-hydroxyethyl methacrylate
4-(2-Methacryloyloxyethyl)-trimellitsäureanhydrid
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling of packages where the contents do not exceed 125 ml**Hazard pictograms**

GHS07

Signal word Warning**Hazard-determining components of labelling:**

2-hydroxyethyl methacrylate
4-(2-Methacryloyloxyethyl)-trimellitsäureanhydrid
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

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SECTION 3: Composition/Information on Ingredients

3.2 Mixtures

Description:

Light-curing dental bonding agent based on methacrylate resins, used for adhesive procedures in restorative dentistry.

Dangerous components:		
CAS: 868-77-9	2-hydroxyethyl methacrylate	10-25%
EINECS: 212-782-2	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 85590-00-7	10-MDP	10-25%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 64-17-5	ethanol	10-25%
EINECS: 200-578-6	⚠ Flam. Liq. 2, H225	
CAS: 72869-86-4	Urethane dimethacrylate	10-25%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315	
CAS: 1830-78-0	2-hydroxy-1,3-propanediyl bismethacrylate	2.5-10%
EINECS: 217-388-4	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 6606-59-3	1,6-hexanediylbismethacrylate	2.5-10%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 70293-55-9	4-(2-Methacryloyloxyethyl)-trimellitsäureanhydrid	2.5-10%
	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	2.5-10%
EINECS: 278-355-8	⚠ Repr. 2, H361f; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1B, H317	
CAS: 10373-78-1	dl-bornane-2,3-dione	<2.5%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

SVHC	
75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Additional information for the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly. If skinirritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Remove contact lenses if present and easy to do. If symptoms persist, consult a doctor.

After swallowing Call a doctor immediately.

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4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Fire fighting measures

Immediate medical attention is required in case of exposure.

5.1 Extinguishing media

Suitable extinguishing agents Use fire extinguishing methods suitable to surrounding conditions

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon dioxide

Carbon monoxide (CO)

5.3 Advice for fire-fighters

SECTION 6: Accidental release measures

Protective equipment: No special measures required.

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on handling and storage.

See Section 8 for information on exposure controls/personal protection.

See Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

- Avoid contact with eyes and skin.
- Use appropriate PPE (gloves, eye protection) when handling.
- Ensure good ventilation in the work area.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry place.
- Keep container tightly closed.
- Incompatible materials: Avoid contact with strong acids, bases, and oxidizers.

Requirements to be met by storerooms and receptacles:

Storage between 3 °C and 25°C.

Close container immediately after use and protect product from light incidence.

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep receptacle tightly sealed.

7.3 Specific end use(s): Professional dental use only

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
64-17-5 ethanol	
OEL (Ireland)	Short-term value: 1000 ppm
WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1000 ppm
	A3

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Hand protection Protective gloves.

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Penetration time of glove material

0,3 mm

Penetration time 60 min.

0,11 mm

Penetration time 10 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Tightly sealed goggles.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Physical state	Fluid
Colour:	Yellowish
Odour:	Alcohol-like
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	78 °C (64-17-5 ethanol)
Flammability	Not applicable.

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Lower and upper explosion limit	
Lower:	3.5 Vol % (64-17-5 ethanol)
Upper:	15 Vol % (64-17-5 ethanol)
Flash point:	Not applicable
Decomposition temperature:	Not determined.
pH at 20 °C	2.5
Viscosity:	
Kinematic viscosity	Not determined.
dynamic at 20 °C:	150 mPas
Solubility	
Water:	Partly miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	59 hPa (64-17-5 ethanol)
Density and/or relative density	
Density at 20 °C:	1.07g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void

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Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity The product is light-sensitive and may polymerize upon exposure to intense light.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions Exothermic polymerization

10.4 Conditions to avoid

- Exposure to light (product is light-sensitive).
- Prolonged exposure to high temperatures.
- Contact with strong acids or bases.
- Keep away from incompatible materials (oxidizers).

10.5 Incompatible materials

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- Carbon monoxide (CO) and carbon dioxide (CO2) may form in case of fire.
- Toxic fumes may be released.
- Polymerization products: May release toxic compounds under heat or light exposure.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Ethanol	LD-50 oral	10470 mg/kg rat	OECD 401
	LC-50 inhalativ	117 mg/l rat	OECD 402

72869-86-4 Urethane dimethacrylate		
Oral	LD50	>5,000 mg/kg (rat)

Skin corrosion/irritation Causes skin irritation.

- Skin Sens. 1; H317 (May cause an allergic skin reaction)

Serious eye damage/irritation Causes serious eye irritation.

- Eye Irrit. 2; H319 (Causes serious eye irritation)

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
07 01 04*	other organic solvents, washing liquids and mother liquors

Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

Recommended cleansing agents:

Alcohol

Acetone

SECTION 14: Transport information

14.1 UN-Number or ID number ADR, IMDG, LATA	Void
14.2 UN proper shipping name ADR, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void

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14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/114

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations

Technical instructions (air):

Class	Share in %
NK	10-25

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations.

Substances of very high concern (SVHC) according to REACH, Article 57

75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

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Relevant phrases

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H411 Toxic to aquatic life with long lasting effects.

Department issuing SDS: R&D, Trent Dent Products Limited

Date of previous version: Dec 2024

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous

IATA: International Air Transport Association Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3