

according to regulation (EU) No. 1907/2006

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1. Identification of the substance/mixture and of the company/undertaking *

1.1 Information on the product

Trade name: pico-splint star Bonder **UFI:** pico-splint star Bonder 2K8X-J04H-S00N-EMR7

1.2. Relevant identified uses of the substance

or mixture and uses advised against

Use of the substance/mixture Light curing repair material for use in dentistry

1.3. Details about the supplier of the safety data sheet

Manufacturer/Supplier:

Company name: DETAX GmbH & Co. KG
Street: Carl-Zeiss-Strasse
City: D-76275 Ettlingen

Telephone: +49 7243 510-0 Telefax: +49 7243 510-100

E-Mail: post@detax.de Internet: post@detax.de

Department for information: Telephone +49 7725 9392-0

This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m.,

Friday 8.00 a.m. - 4.00 p.m.)

Distribution: picodent GmbH Telephone: +49 2267 6580-0

Lüdenscheider Str. 24-26 Mo.-Fr. 7.30 - 16.45 Uhr D-51688 Wipperfürth picodent@picodent.de

1.4. Emergency contact number: Telephone +49 7243/510-0

This number is only obtainable during office hours

(Monday - Thursday 8.00 a.m. - 5.00 p.m.,

Friday 8.00 a.m. - 4.00 p.m.)

2. Hazards identification *

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Flammable liquid:

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Respiratory or skin sensitisation:

Specific target organ toxicity - single exposure:

Hazardous to the aquatic environment:

Flam. Liq. 2

Skin Irrit. 2

Eye Irrit. 2

Skin Sens. 1A

STOT SE 3

Aquatic Chronic 3

Hazard Statements: Highly flammable liquid and vapour.

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.







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2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling "methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl

methacrylate, MMA" acrylic acid derivates vinylester resin

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Danger

Pictograms:

Signal word:





Hazard statements

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.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235 Keep cool.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/ container in accordance with local and national regulations.

2.3. Other hazards

No information available.



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3. Composition/information on ingredients *

3.2. Mixtures

Chemical characterization Mixture of acrylic/ methacrylic resins with auxilliary matters.

Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	GHS-Classification				
80-62-6	"methyl 2-methylprop-2-enoate; ı	methyl 2-methylpropeno	ate; methyl methacrylate, MMA"	20 - 70 %	
	201-297-1	607-035-00-6			
	Flam. Liq. 2, Skin Irrit. 2, Skin Ser	ns. 1, STOT SE 3; H225 I	H315 H317 H335		
	acrylic acid derivates			25 - 50 %	
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H319 H317 H412				
	aliphatic polyestertriurethane triad	crylate		5 - 20 %	
	Skin Irrit. 2, Eye Irrit. 2; H315 H31	9			
55818-57-0	vinylester resin			1 - < 5 %	
	•		01-2119490020-53		
	Skin Sens. 1; H317				
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)p	hosphine oxide		0,1 - 5 %	
	278-355-8	015-203-00-X			
	Repr. 2, Skin Sens. 1B, Aquatic C	Chronic 2; H361f H317 H4	411		

Full text of H and EUH statements: see section 16.

4. First aid measures

4.1. Description of first aid measures

After inhalation Provide fresh air. Medical treatment necessary.

After contact with skin, wash immediately with polyethylene glycol,

followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes After contact with the eyes, rinse with water with the eyelids open for

a sufficient length of time, then consult an ophthalmologist

immediately.

After ingestion Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the

vomit (danger of suffocation).

4.2. Most important symptoms and effects,

both acute and delayed No information available.

4.3. Indication of any immediate medical attention

and special treatment needed Treat symptomatically.



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5. Fire-fighting measures

5.1. Extinguishing media Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance

or mixture

Highly flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters Wear a self-contained breathing apparatus and chemical protective

clothing. Full protection suit.

containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow

entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment

and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and

clothes. Use personal protection equipment.

6.2. Environmental precautionsDo not allow uncontrolled discharge of product into the environment.

Danger of explosion

6.3. Methods and material for containment

and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as

prescribed in the section on waste disposal.

6.4. Reference to other sections Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation

have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Advice on storage compatibility Do not store together with: Oxidising agent. Pyrophoric or self-

heating substances.

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Further information on storage conditions

Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs. Keep away from all kind of ligth. An inert gas blanket should not be applied, because the stability of the

product depends on the presence of oxygen (air).

7.3. Specific end use(s)Adhesive for repair of dental restaurations like prosthesis, crowns or

bridges. For use by trained specialist staff.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	W/FI

8.2. Exposure controls

Appropriate engineering controls If handled uncovered, arrangements with local exhaust ventilation

have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures Remove contaminated, saturated clothing immediately. Draw up and

observe skin protection programme.

Wash hands and face before breaks and after work and take a shower

if necessary. When using do not eat or drink.

Eye/face protection Suitable eye protection: goggles.

Hand protection When handling with chemical substances, protective gloves must be

worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned

above together with the supplier of these gloves.

Suitable are gloves of the following material: Butyl caoutchouc (butyl

rubber)

Skin protection Flame-retardant protective clothing. Wear anti-static footwear and

clothing

Respiratory protection In case of inadequate ventilation wear respiratory protection.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: light yellow
Odour: faintly like esters

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 92 °C DIN 51356 Flash point: 92 °C DIN 51755

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: 2 vol. %

Upper explosion limits: 12 vol. %

Ignition temperature: >400 °C DIN 51794

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: >100 °C

Oxidizing properties

Not oxidizing.

Vapour pressure: (at 20 °C)
40 hPa
Vapour pressure: (at 50 °C)
160 hPa

Density (at 20 °C): 1,07 g/cm³ DIN 51757

Water solubility: (at 20 °C)

Solubility in other solvents

not determined

Partition coefficient:

Vapour density:

not determined

Evaporation rate:

not determined

not determined

9.2. Other information

Solid content: not determined

10. Stability and reactivity

10.1. Reactivity Highly flammable.

10.2. Chemical stabilityThe product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions Reacts with: oxidising agents, radicals forming substances or heavy

metal ions.

10.4. Conditions to avoid Keep away from sources of heat (e.g. hot surfaces), sparks and open

flames. Vapours can form explosive

mixtures with air.

Ultra-violet ligth and dayligth initiate polymerisation of the product. Therefore keep only in tigthly closed containers away from any sources of ligth. Keep in a refrigerator at 2°C - 12°C / 36°F - 54 °F.

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10.5. Incompatible materialsNo information available.

10.6. Hazardous decomposition products In case of fire, acrid acrylic fumes may occur.

11. Toxicological information *

11.1. Information on toxicological effects

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	"methyl 2-methylprop-2-enoate;	methyl 2-methylpro	penoate; methyl methad	crylate, MMA"	
	oral	LD50 7870 m	ng/kg Rat		
	dermal	LD50 >5000	mg/kg Rabbit		
	inhalative (4 h) vapour	LC50 78 mg/	'I Rat		
	acrylic acid derivates				
	oral	LD50 2000 m	ng/kg Rat	OECD 423	
	dermal	LD50 2000 m	ng/kg Rabbit	OECD 402	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)	phosphine oxide			
	oral	LD50 >5000	mg/kg Rat		
	dermal	LD50 >2000	mg/kg Rat		

Irritation and corrosivity Causes skin irritation.

Causes serious eye irritation.

Sensitising effects May cause an allergic skin reaction. ("methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate; methyl methacrylate, MMA"; acrylic acid derivates; vinylester resin; diphenyl(2,4,6-trimethylbenzoyl)

phosphine oxide)

Carcinogenic/mutagenic/toxic effects

for reproduction STOT-single exposure

STOT-repeated exposure Aspiration hazard

Additional information on tests

Based on available data, the classification criteria are not met. May cause respiratory irritation. ("methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate; methyl methacrylate, MMA") Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

This mixture is classified as hazardous according to regulation (EC)

No. 1272/2008 [CLP].











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12. Ecological information

12.1. Toxicity Harmful to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

CAS No Chemical name
Aquatic toxicity Dose [h] | [d] Species Source Method

80-62-6 "methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"

Acute fish toxicity LC50 >100 mg/l 96 h

acrylic acid derivates

Algea toxicity NOEC 10 mg/l 72 d Pseudokirchneriella OECD 201

subcapitata

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

Acute algae toxicity ErC50 >2,01 mg/l 72 h Scenedesmus subspicatus

Acute crustacea toxicity EC50 3,53 mg/l 48 h Daphnia magna (Big water flea)

Acute bacteria toxicity (>1000 mg/l) 3 h Activated sludge

12.2. Persistence and degradability

The product has not been tested.

CAS No Chemical name

Method Value d Source

Evaluation

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

0-10% 28

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential The product has not been tested.

Partition coefficient n-octanol/water

CAS No Chemical name Log Pow

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 3,1

BCF

CAS No Chemical name BCF Species Source

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 47-55 Cyprinus carpio (Common Carp)

12.4. Mobility in soil The product has not been tested.

12.5. Results of PBT and vPvB assessmentNot identivied as PBT/ vPvB substances

12.6. Other adverse effectsNo information available.

Further informationDo not allow to enter into surface water or drains. Do not allow to

enter into soil/subsoil.











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13. Disposal considerations *

13.1. Waste treatment methods

Disposal recommendations Do not allow to enter into surface water or drains. Do not allow to

enter into soil/subsoil. Dispose of waste according to applicable

legislation.

Contaminated packaging Non-contaminated packages may be recycled. Handle contaminated

packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

14.1. **UN** number: UN 1866 14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3 F1 Classification code: 5 L/ 30kg Limited quantity: Hazard No: 33

Tunnel restriction code: D/E

Marine transport (IMDG)

14.1. UN number: UN 1866 14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es): 3 14.4. Packing group: Ш

Hazard label: 3 Marine pollutant: nein **Special Provisions:**

5L/30kg Limited quantity: F-E, S-E EmS:

Other applicable information (marine transport)

Flash point: 12°C c.c.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1866 14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 3

Limited quantity Passenger: 1 L/30 kg Passenger LQ: Y341 Excepted quantity: E2 353 IATA-packing instructions - Passenger: 5 L IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: 364 IATA-max. quantity - Cargo: 60 L

14.6. Special precautions for user Warning: Combustible liquid.

14.7. Transport in bulk according to Annex II

of Marpol and the IBC Code not applicable



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15. Regulatory information *

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

2004/42/EC (VOC) **EU** regulatory information

48%

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the

'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment Chemical safety assessments for substances in this mixture were not

carried out.

16. Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized 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 LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

	•
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. H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

^{*} Data compared to the previous version Rev.-No. 3.01 altered.









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