

Safety Data Sheet

according to regulation (EU) No. 1907/2006

Printing date: 08/04/2021

pico-splint star Glanzlack

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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 Glanzlack
UFI: 2K8X-J04H-S00N-EMR7

1.2. Relevant identified uses of the substance/mixture and uses that are inadvisable

Use of the substance/mixture Light curing lacquer for surface sealing 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: www.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:	Flam. Liq. 2
Skin corrosion/irritation:	Skin Irrit. 2
Serious eye damage/eye irritation:	Eye Irrit. 2
Respiratory or skin sensitisation:	Skin Sens. 1A
Specific target organ toxicity - single exposure:	STOT SE 3
Hazardous to the aquatic environment:	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 derivatives
vinylester resin
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Danger

Signal word:

Pictograms:



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 /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	Index No	REACH No	Quantity
	EC No			
	GHS-Classification			
80-62-6	„methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA“	201-297-1	607-035-00-6	20 - 70 %
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
	acrylic acid derivates			25 - 50 %
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H319 H317 H412			
	aliphatic polyestertriurethane triacrylate			5 - 20 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
55818-57-0	vinylester resin		01-2119490020-53	1 - < 5 %
	Skin Sens. 1; H317			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	015-203-00-X	0,1 - 5 %
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411			

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

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.

Additional information

Use water spray jet to protect personnel and to cool endangered 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 precautions

Do 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 lighth. 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)

Lacquer for coating of dental restaurations.
For use by trained specialist staff.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

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:	12 °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/cm ³	DIN 51757
Water solubility: (at 20 °C)	16 g/L	
Solubility in other solvents		
not determined		
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	

9.2. Other information

Solid content: not determined

10. Stability and reactivity

10.1. Reactivity	Highly flammable.
10.2. Chemical stability	The 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 light and daylight initiate polymerisation of the product. Therefore keep only in tightly closed containers away from any sources of light. Keep in a refrigerator at 2°C - 12°C / 36°F - 54 °F.

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10.5. Incompatible materials

No 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-methylpropenoate; methyl methacrylate, MMA“	oral	LD50 7870 mg/kg	Rat		
		dermal	LD50 >5000 mg/kg	Rabbit		
		inhalative (4 h) vapour	LC50 78 mg/l	Rat		
	acrylic acid derivatives	oral	LD50 2000 mg/kg	Rat	OECD 423	
		dermal	LD50 2000 mg/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 derivatives; vinylester resin; diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. („methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA“)

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.

Additional information on tests

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	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 derivatives					
	Algae toxicity	NOEC 10 mg/l	72 d	Pseudokirchneriella subcapitata	OECD 201	
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	Value	d	Source
	Method 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.

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12.5. Results of PBT and vPvB assessment Not identified as PBT/ vPvB substances

12.6. Other adverse effects No information available.

Further information Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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): 3
14.4. Packing group: II
Hazard label: 3
Classification code: F1
Limited quantity: 5 L/ 30kg
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: II
Hazard label: 3
Marine pollutant: nein
Special Provisions: -
Limited quantity: 5L/ 30kg
EmS: F-E, S-E

Other applicable information (marine transport)

Flash point: 12°C c.c.

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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):	3
14.4. Packing group:	II
Hazard label:	3
Limited quantity Passenger:	1 L/ 30 kg
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
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

15. Regulatory information *

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

EU regulatory information 2004/42/EC (VOC)
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 to 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.

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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.