

Safety Data Sheet

Signal word: ATTENTION

Hazard statements:

H317: May cause allergic reactions.

Precautionary statements:

Prevention:

P261 Avoid breathing dust/fumes.

P280 Wear protective gloves/ eye protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/container in accordance with national legislation.

2.3 Other hazards

Can become warm during light curing process

Do not use if known allergy against Acrylates and Methacrylates

PBT and vPvB evaluations are in Section 12.5

SECTION 3: Composition / information on ingredients

Chemical Name	INDEX number EC-Number CAS Nr.	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Vinylester Resin	/ / 55818-57-0	5 - 8	Skin Sens. 1B	H317
Triethylenglykol di-methacrylate	/ 203-652-6 109-16-0	2-5	Skin Sens. 1B	H317
Phosphine oxide	/ 278-355-8 75980-60-8	0,05 – 0,1	Repr 2 Aqu. Chron. 3,	H361f H412

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2,2-Dimethoxy-2-diphenylacetophenon	CAS-Nr. 24650-42-8 EINECS-Nr. 246-386-6	< 0,1 %	Aquatic Chronic 1	H410
Campherchinon	CAS-Nr. 10373-78-1	< 0,1 %	Skin Irrit. 2 STOT SE	H315 H335
Dimethylhydroxyacetophenon	CAS-Nr. 7473-98-5 EINECS-Nr. 231-272-0	< 0,1 %	Skin Sens. 1 Acute Tox. 4 Aquatic Acute	H317
2-Ethylhexyl-4-(dimethylamino)benzoat	CAS-Nr. 21245-02-3 EINECS-Nr. 244-289-3	< 0,1 %	Eye Irrit. 2 Aquatic Acute Repr. 1B	H319 H400 H360
2,2-Diethoxyacetophenon	CAS-Nr. 6175-45-7 EINECS-Nr. 228-220-4	< 0,1 %	STOT SE 3	H335

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Inhalation:

Take person to fresh air.

Skin contact:

Remove contaminated clothing. Wash off with soapy water. Contact a physician if the skin is irritated.

Eye contact:

Wash off open eye with plenty of water, for at least 15 minutes. Ask for medical help when difficulties appear.

Ingestion:

Do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Sensitization of skin is possible.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment. Contact physician if sensitization of skin is persisting.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

Foam, Dry powder, carbon dioxide, waterspray-stream.
Adjust fire-fighting-measures to ambiance.

Unsuitable:

Water jet.

5.2 Special hazards arising from the substance or mixture

Particular danger through the product itself, its combustion products or gases are not known.

5.3 Advice for firefighters

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit). Collect contaminated water used for firefighting separately. Do not release it in sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Insure against source of fire and heat. Wear protective equipment. Avoid skin contact and eye contact. Arrange for fresh air.

6.2 Environmental precautions

Do not allow enter sewage system or waters. Prevent soil penetrating.

6.3 Methods and material for containment and cleaning up

Pick up material mechanically. Dispose only complete light cured material. Dispose material under adherence to the local official rules for hazardous wastes.

6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

The conventional precautions for works with chemicals are to be adhered. Wear overall protection while working.

7.2 Conditions for safe storage, including any incompatibilities

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Store at a cool, dry and light protected place.

7.3. Specific end use(s)

Product is intended to be used in dental laboratories. Wear gloves while working. Good ventilation during grinding the cured material is recommended

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

EU – Commission Directive 98/24/EC with all amendments and supplements

Regulation on the protection of workers from risks related to exposure to chemical agents at work (Official Gazette RS, No. 72/2021, 29/2024, 26/2025)

Regulation on the protection of workers from risks related to exposure to carcinogenic, mutagenic or reprotoxic substances at work (Official Gazette RS, No. 29/2024, 26/2025):

Derived No-Effect Level (DNEL):

No data available.

Predicted No-Effect Concentration (PNEC):

No data available.

8.2 Exposure controls

Personal protective equipment (PPE) in accordance with Regulation (EU) 2016/425 and the List of Harmonised Standards for PPE – 2018/C 209/03.

Personal protection

General safety and hygiene measures:

Observe standard protective and hygiene measures. Protective clothing must be stored separately. Follow normal precautionary practices.

Respiratory protection:

Not required during the use of the non-polymerised product. During processing of the polymerised product, exhaust ventilation is necessary and use of an FFP1 protective mask is recommended.

Eye protection:

The use of protective goggles in accordance with EN 166 is recommended. If corrective glasses are worn, additional protective goggles are not required.

Hand protection:

Sensitisation: The use of suitable protective gloves according to EN 374-1, Type B, is recommended (based on previous experience/literature). During normal use, contact is short-term; users may also adopt work practices that prevent contact with the product, which is preferable.

Skin and body protection:

Protective work clothing.

8.3 Environmental exposure controls

General guidelines: Do not discharge into surface water or the sewage system.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	Solid
Colour	pink
Odour	Acrylates / methacrylates
pH	n.a.
Density	n.a.
Boiling point	n.a.
Flashpoint	(approx. > 100°C)
Autoignition	No data available
Upper explosion limit	n.a.
Lower explosion limit	n.a.
Oxidative characteristics	n.a.
Vapour pressure	n.a.
Density	n.a.
Solubility in water	n.a.
Partition coefficient: n-octanol/water	n.a.
Viscosity	n.a.
Vapour density	n.a.
Evaporation rate	n.a.

9.2 Other information

No additional information

SECTION 10: Stability and reactivity**10.1 Reactivity**

Product polymerizes slowly by contact with Sunlight or other light.

10.2 Chemical stability

If protected against heat, solar radiation and light the material is chemical stable.

10.3 Possibility of hazardous reaction

No hazardous heat emission during slow polymerizing.

10.4 Conditions to avoid

Protect against Sunlight, heat and other light to avoid slowly polymerization.

10.5 Incompatible materials

Protect against radical formers to avoid slowly polymerization

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10.6 Hazardous decomposition products

None, if used according to directions.

SECTION 11: Toxicological information

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

Acute toxicity

Based on the individual components, the mixture is not acutely toxic.

Skin corrosion/irritation

Does not cause skin irritation.

Serious eye damage/eye irritation

Does not cause eye damage.

Respiratory or skin irritation

Does not cause respiratory or skin irritation.

Skin sensitisation

Skin sensitisation possible based on the components.

STOT – repeated exposure

Not known.

Germ cell mutagenicity / Carcinogenicity

Not carcinogenic based on the components.

Mutagenicity

Not mutagenic based on the components.

Reproductive toxicity

No evidence of reproductive toxicity based on the concentrations of the components.

Toxicokinetics / metabolism / distribution

According to the latest material safety data sheet under REACH, this section should provide information on toxicokinetics, metabolism and distribution in the human body. No data available.

11.2 Information on other hazards

Additional information:

The product must be labelled. With appropriate exposure and conventional use, and based on our experience and available information, the product does not cause hazardous effects.

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Further details:

Side effects: Methacrylates may cause allergic reactions.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

The ingredients of the mixture are not degradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substance is not considered to be persistent, bioaccumulative or toxic. The substance is not considered to be very persistent and very bioaccumulative.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effect

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Substance / Preparation

To dispose of accordingly with notice of the local regulations of authority.
Do not empty into drains.

Waste classification – unpolymerized material:

16 03 05 – Organic substances containing hazardous substances.

Waste classification – polymerized (cured) material:

16 03 06 – Organic wastes other than those mentioned in 16 03 05.

Packaging

Non-contaminated packaging can be recycled.

Waste packaging classification: 15 01 02 – Plastic packaging.

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SECTION 14: Transport Information			
	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):
14.1 UN number	No data available		
14.2 UN proper shipping name	No data available		
14.3 Transport hazard class(es)			
14.4 Packing group	No data available		
14.5 Environmental hazards	No data available		
14.6 Special precautions for user	No special precautions		
14.7 Maritime transport in bulk according to IMO instruments	No data available		
Not a dangerous product within the meaning of the transport regulations.			

SECTION 15: Regulatory information

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

The product is classified in accordance with the requirements of Regulation (EC) No 1272/2008 and 1907/2006, including their amendments, and the corresponding national legislation: the Implementing Regulation of the EU Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Official Gazette of the Republic of Slovenia, No. 23/08 and 191/20, and the Implementing Regulation of EU Regulation No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, Official Gazette of the Republic of Slovenia, No. 56/10.

15.2 Chemical safety assessment

No data available from component's supplier.

SECTION 16: Other information

Revision:

Version 06 issued on July 2025 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

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Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Legend of abbreviations:

ADR – European agreement concerning the international carriage of dangerous goods by road
CAS – Chemical Abstracts Service
CLP – Classification, Labeling and Packaging
CMR – Carcinogenic, Mutagenic or toxic for Reproduction
DNEL - Derived no-effect level
EC₅₀: Half maximal effective concentration
EmS – Emergency Schedule
GHS – Globally Harmonised System of Classification and Labeling of Chemicals
IATA – International Air Transport Association
IMDG – International Maritime Dangerous Goods Code
LC₅₀: Lethal concentration, 50%
LD₅₀: Median lethal dose; the dose causing 50% lethality
MARPOL – International convention for the prevention of pollution from ships
NOEC - No-observed-effect concentration
OEL - Occupational exposure limit
OECD - Organisation for Economic Co-operation and Development
PBT – Persistent Bioaccumulative Toxic
PNEC: Predicted no-effect concentration
Ppm – parts per million
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals
RID – Regulation concerning the international carriage of dangerous goods by rail
vPvB – very Persistent and very Bioaccumulative

References:

- Regulation (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Commission Directive 2009/161/EU
- Safety Data Sheet of raw material manufacturer
- Martindale: The Extra Pharmacopoeia, 13th Edition
- Website: <https://chem.echa.europa.eu/>
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Regulation on the implementation of Regulation (EU) on Personal Protective Equipment (Official Gazette of the RS, No. 33/18)
- List of harmonised standards for personal protective equipment (C 412 / 11.12.2015, with all amendments and supplements)
- Occupational Safety and Health Act (Official Gazette of the RS, No. 43/2011)
- Waste Regulation (Official Gazette of the RS, No. 77/22 and 113/23)
- Regulation on Packaging and Packaging Waste (Official Gazette of the RS, No. 54/21, 208/21, 44/22 – ZVO-2 and 120/22)

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- Decision on the publication of Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Dangerous Goods Regulations (DGR) for Air Transport (IATA)
- Regulation for the International Maritime Transport of Dangerous Goods (IMDG)
- Commission Directive 98/24/EC, with all amendments and supplements
- Decree on the protection of workers from the risks related to exposure to chemical agents at work (Official Gazette of the RS, No. 72/2021, 29/2024, 26/2025)
- Decree on the protection of workers from the risks related to exposure to carcinogenic, mutagenic or reprotoxic substances at work (Official Gazette of the RS, No. 29/2024, 26/2025)

Disclaimer of expressed and implied warranties:

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.