

Version number 11 (replaces version 10)

Revision: 12.04.2024

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

· 1.1 Product identifier

· Trade name: AESTHETIC RED Monomer

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Heat-curing denture base material
- · 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: CANDULOR AG Boulevard Lilienthal 8 8152 Glattpark (Opfikon) SWITZERLAND

Tel. +41 (0) 44 805 9000 *Fax* +41 (0) 44 805 9090

 Further information obtainable from: Regulatory Affairs info@candulor.ch
 1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, 9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling: methyl methacrylate ethylene glycol dimethacrylate · Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. · Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing.

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

 P303+P361+P353
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

 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.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 80-62-6	methyl methacrylate	50-100%
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317;	
Reg.nr.: 01-2119452498-28-XXXX	STOT SE 3, H335	
CAS: 97-90-5	ethylene glycol dimethacrylate	2.5-<10%
EINECS: 202-617-2	Skin Sens. 1, H317; STOT SE 3, H335, EUH208	
Reg.nr.: 01-2119965172-38-xxxx	Specific concentration limit: STOT SE 3; H335: $C \ge 10 \%$	
CAS: 99-85-4	p-Mentha-1,4-diene	<2.5%
EINECS: 202-794-6	Flam. Liq. 3, H226; Repr. 2, H361; Skin Irrit. 2, H315; Eye	
	Irrit. 2, H319; STOT SE 3, H335	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:
- Immediately rinse with water.

If skin irritation continues, consult a doctor.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

• 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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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- 5.3 Advice for firefighters
- *Protective equipment:* No special measures required.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 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). Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Only adequately trained personnel should handle this product. Ensure good ventilation/exhaustion at the workplace. For use in dentistry only.

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• *Requirements to be met by storerooms and receptacles:* Store in a cool location. Store only in the original receptacle.

· Information about storage in one common storage facility: Store away from oxidising agents.

- Further information about storage conditions: Keep container tightly sealed.
- *Store receptacle in a well ventilated area.*
- Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Ingredients with limit values that require monitoring at the workplace:

CAS: 80-62-6 methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

• 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.

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^{· 8.1} Control parameters

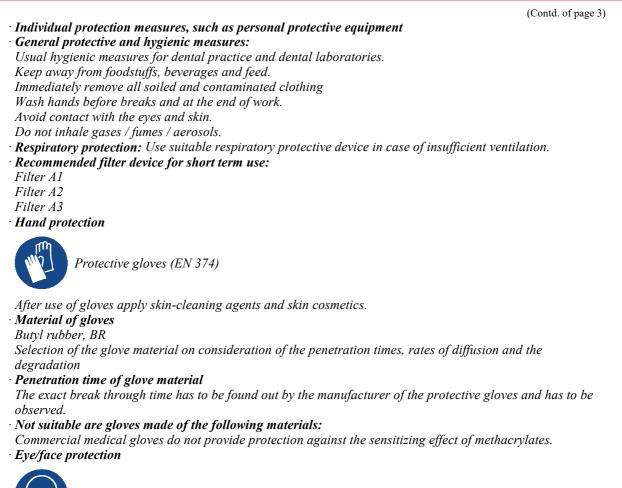
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Tightly sealed goggles (EN 166)

SECTION 9: Physical and chemical properties

General Information		
Colour:	Colourless	
Odour:	Pungent	
Odour threshold:	Not determined.	
Melting point/freezing point:	-48 °C	
Boiling point or initial boiling point and	l boiling	
range	101 °C	
Lower and upper explosion limit		
Lower:	2.1 Vol %	
Upper:	12.5 Vol %	
Flash point:	10 °C	
Auto-ignition temperature:	430 °C	
pH I I	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	

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· Solubility	
· water at 20 °C:	1.6 g/l
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	47 hPa
· Density and/or relative density	
Density at 20 °C:	0.943 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
• 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
Important information on protection of health an	d
environment, and on safety. Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not schlighting. Product is not explosive. However, formation of
Explosive properties.	explosive air/vapour mixtures are possible.
· Change in condition	explosive univapour mixtures are possible.
· Evaporation rate	Not determined.
Information with regard to physical hazard classe	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· 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
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- Forms explosive gas mixture with air.
- Reacts with strong oxidising agents.

Exothermic polymerisation.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None under normal conditions of storage and use.

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SECTION 11: Toxicological information

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:

CAS: 80-62-6 methyl methacrylate

Oral LD50 7872 mg/kg (rat)

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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

- May cause respiratory irritation.
- · 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 toxicological information: No further relevant information available.
- · 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 No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority. (Contd. on page 7)

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• *Uncleaned packaging:* • *Recommendation: Disposal must be made according to official regulations.*

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA	UN1247
14.2 UN proper shipping name ADR/RID/ADN	1247 METHYL METHACRYLATE MONOMER, STABILIZED
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZE
14.3 Transport hazard class(es)	
ADR/RID/ADN	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	3 Flammable liquids.
Label	3
14.4 Packing group ADR/RID/ADN, IMDG, IATA	Π
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Flammable liquids. 339 F-E,S-D
14.7 Maritime transport in bulk according to IM instruments	<i>10</i> Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 D/E
IMDG Limited quantities (LQ)	IL

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, 3, II

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- · National regulations:
- Other regulations, limitations and prohibitive regulations
- *The product is a medical device according to Regulation 2017/745 on Medical Devices (MDR).* • **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.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 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.
- H361 Suspected of damaging fertility or the unborn child.
- EUH208 Contains . May produce an allergic reaction.
- Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Abbreviations and acronyms:
- IMO: International Maritime Organization
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- IMDG: International Maritime Code for Dangerous 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 vPvB: very Persistent and very Bioaccumulative*
- Flam. Liq. 2: Flammable liquids Category 2
- Flam. Liq. 2: Flammable liquids Category 2 Flam. Liq. 3: Flammable liquids – Category 3
- 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
- Repr. 2: Reproductive toxicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- * Data compared to the previous version altered.