

Version number 10

Reviewed on 04/26/2024

1 Identification

· Product identifier

· Trade name: AESTHETIC BLUE LT Modelling Monomer

- · Application of the substance / the mixture for characterization of denture base materials
- 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

- Information department: Regulatory Affairs info@candulor.ch
- *Emergency telephone number:* 24 Hour Emergency Assistance: Emergency-Call USA - Infotrac: 1-800-535-5053 Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

2 Hazard identification

· Classification of the substance or mixture

Flammable Liquids - Category 2 Skin Irritation - Category 2 Skin Sensitizer - Category 1 Specific Target Organ Toxicity - Single Exposure -Category 3

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Label elements
 GHS label elements
 The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

• *Hazard-determining components of labeling:* methyl methacrylate 1,4-butanediol dimethacrylate • *Hazard statements*

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

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Precautionary statements
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Do not get in eyes, on skin, or on clothing.
 Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Dispose of contents/container in accordance with local/regional/national/international regulations.

• Classification system: • NFPA ratings (scale 0 - 4)

4Health = 2 Fire = 3 Reactivity = 2

· HMIS-ratings (scale 0 - 4)

HEALTH 2	2	Health = 2
FIRE 3	3	Fire = 3
REACTIVITY 2	2	<i>Reactivity</i> $= 2$

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 80-62-6	methyl methacrylate	80-100% w/w *	
CAS: 2082-81-7	1,4-butanediol dimethacrylate	1-5% w/w *	
CAS: 3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol	≤0.1% w/w	
* Actual concentration ranges are withheld as a trade secret.			

4 First-aid measures

· 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; immediately call for medical help.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- *Protective equipment:* No special measures required.
- · Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 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
- · 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.

7 Handling and storage

· Handling:

- *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 protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 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 oxidizing agents.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store receptacle in a well ventilated area.
- Protect from heat and direct sunlight.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

• Additional information about design of technical systems: No further data; see section 7.

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^	Control parameters		
Components with limit values that require monitoring at the workplace: CAS: 80-62-6 methyl methacrylate			
LL	STEL: 100 ppm TWA: 50 ppm		
	S(D)		
FV	STEL: 100 ppm		
Ľγ	TWA: 50 ppm		
Rac	ulatory information		
	OHS Guidelines Part 5, Table of Exposure Limits for Chemical and Biological Substances		
	O. Reg. 287/17		
	itional information: The lists that were valid during the creation were used as basis.		
Fri	osure controls		
	onal protective equipment:		
	eral protective and hygienic measures:		
	al hygienic measures for dental practice and dental laboratories.		
	p away from foodstuffs, beverages and feed.		
	ediately remove all soiled and contaminated clothing.		
	h hands before breaks and at the end of work.		
	d contact with the eyes and skin.		
	not inhale gases / fumes / aerosols.		
	<i>uthing equipment:</i> Use suitable respiratory protective device in case of insufficient ventilation.		
	ommended filter device for short term use: er Al		
	<i>or A2</i>		
Filt	r A2 r A3		
Filt	<i>or A2</i>		
Filt	ection of hands:		
Filt	r A2 r A3		
Filt	ection of hands:		
Filt Pro	er A2 ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics.		
Filt Pro Afte Ma	er A2 ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves		
Filt Pro Afte Ma But	ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves l rubber, BR		
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Filt Pro Afte Ma But Sele deg	er A2 ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves I rubber, BR ction of the glove material on consideration of the penetration times, rates of diffusion and the radation		
Filt Pro Afte Ma But Sele deg Pen	ection of hands: ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves I rubber, BR ction of the glove material on consideration of the penetration times, rates of diffusion and the radation etration time of glove material		
Filt Pro Afte Ma But Sele deg Pen The	<i>ar A2</i> <i>ar A3</i> <i>ection of hands:</i> <i>protective gloves</i> <i>r use of gloves apply skin-cleaning agents and skin cosmetics.</i> <i>erial of gloves</i> <i>l rubber, BR</i> <i>ction of the glove material on consideration of the penetration times, rates of diffusion and the</i> <i>adation</i> <i>etration time of glove material</i> <i>exact break through time has to be found out by the manufacturer of the protective gloves and has to be</i>		
Filt Pro Afte Ma But Sele deg Pen The obs	Tr A2 Tr A3 ection of hands: Protective gloves r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves I rubber, BR ction of the glove material on consideration of the penetration times, rates of diffusion and the adation etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be rved.		
Filt Pro After Ma But Sele deg Pen The obs Not	<pre>r A2 rr A3 ection of hands:</pre>		
Filt Pro Afte Ma But Sele deg Pen The obs Non Con	 <i>Protective gloves</i> <i>Protective glove gloves</i> <i>Protective gloves</i> <i></i>		
Filt Pro Afte Ma But Sele deg Pen The obs Non Con	<pre>r A2 rr A3 ection of hands:</pre>		
Filt Pro Afte Ma But Sele deg Pen The obs Non Con	 <i>Protective gloves</i> <i>Protective glove gloves</i> <i>Protective glove</i> <i>P</i>		

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0	Fluid Colorless
Form: Color: Odor:	
Color: • Odor:	
· Odor:	Coloriess
0.0011	
	Pungent Not determined.
• Odor threshold:	
pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-48 °C
Boiling point/Boiling range:	101 °C
Flash point:	10 °C
Auto igniting:	430 °C
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
· Vapor pressure at 20 °C:	47 hPa
Density at 20 °C:	0.943 g/cm^3
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 20 °C:	1.6 g/l
Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- *Possibility of hazardous reactions Forms explosive gas mixture with air.*
- Reacts with strong oxidizing agents.

Exothermic polymerization.

- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 7872 mg/kg (rat)

CAS: 80-62-6 methyl methacrylate

Oral LD50 7872 mg/kg (rat)

Specific symptoms in biological assay:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information: No further relevant information available.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 80-62-6 methyl methacrylate

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- *Persistence and degradability* No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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Fransport information	
UN-Number DOT/TDG, ADR, IMDG, IATA	UN1247
· UN proper shipping name · DOT/TDG · ADR	Methyl methacrylate monomer, stabilized 1247 Methyl methacrylate monomer, stabilized
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED
· Transport hazard class(es)	
DOT/TDG (Transport dangerous goods):	
ranse part	
· Class	3 Flammable liquids
Label ADR	3
Class Label	3 (F1) Flammable liquids
Class	3 Flammable liquids
Label	3
· Packing group · DOT/TDG, ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Flammable liquids 339 F-E,S-D
· Stowage Category · Stowage Code	<i>B</i> <i>SW2 Clear of living quarters.</i>
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml

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• IMDG • 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
· UN "Model Regulation":	UN1247, Methyl methacrylate monomer, stabilized, 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 80-62-6 methyl methacrylate

· TSCA (Toxic Substances Control Act):

CAS: 80-62-6 methyl methacrylate

CAS: 2082-81-7 1,4-butanediol dimethacrylate

CAS: 3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

• Hazard-determining components of labeling:

methyl methacrylate

- 1,4-butanediol dimethacrylate
- Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

- May cause respiratory irritation.
- Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

• Other regulations, limitations and prohibitive regulations

The product is a medical device according to Regulation 2017/745 on Medical Devices (MDR). This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Contact:

• Date of the latest revision of the safety data sheet 04/26/2024 • Abbreviations and acronyms: IMO: International Maritime Organization IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative • * Data compared to the previous version altered.