

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.12.2024

Version: 2

Revision: 23.12.2024

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

- **1.1 Product identifier**
- **Trade name:** anaxblend Model LC
- **Article number:** 20700009
- **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** see point 3)
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
anax dent GmbH, Dreifelderstr.5, D-70599 Stuttgart  
Tel.: 0711/620092-0 Fax: 0711/620092-29  
anaxdent.com
- **Further information obtainable from:** R&D, MANI MEDICAL GERMANY GmbH, Tel: +049 6003/8286-0
- **1.4 Emergency telephone number:**  
+49 (0) 6003 82 86-0, MANI MEDICAL GERMANY GmbH (8:00 - 17:00) or  
+49 (0) 6131 19240 Poison Information Center, University Mainz (24 h)

### 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.
- Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02    GHS07    GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*methyl methacrylate*  
*di-urethane 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.  
H411 Toxic 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.  
P241      Use explosion-proof [electrical/ventilating/lighting] equipment.  
P261      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P405      Store locked up.  
P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Labelling of packages where the contents do not exceed 125 ml**
- **Hazard pictograms**



GHS02   GHS07   GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*methyl methacrylate*  
*di-urethane dimethacrylate*
- **Hazard statements**  
*H317 May cause an allergic skin reaction.*
- **Precautionary statements**  
*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*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:** *Lightcuring adhesive agent on a methacrylate base.*

- **Dangerous components:**

CAS: 80-62-6	<i>methyl methacrylate</i>	50-75%
EINECS: 201-297-1	<i>Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335</i>	
CAS: 41137-60-4	<i>di-urethane dimethacrylate</i>	25-50%
	<i>Aquatic Chronic 2, H411; Skin Sens. 1B, H317</i>	

- **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**
- **After inhalation** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact**  
*Immediately wash with water and soap and rinse thoroughly.*  
*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**  
*Carbon dioxide*

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*Fire-extinguishing powder**Foam**Water haze*

- **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.*
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.*
  - Wear fully protective suit.*
- **Additional information**
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective clothing.*
  - Avoid eye and skin contact with the substance.*
  - Wear protective equipment. Keep unprotected persons away.*
  - Keep away from ignition sources*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**
  - Send for recovery or disposal in suitable receptacles.*
  - 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** *Ensure good ventilation/exhaustion at the workplace.*
- **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:**
  - Storage between 10 °C and 25 °C.*
  - Close container immediately after use and protect product from light incidence.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*
- **Further information about storage conditions:** *Store in cool, dry conditions in well sealed receptacles.*
- **7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

<b>80-62-6 methyl methacrylate</b>	
OEL (Ireland)	Short-term value: 100 ppm Long-term value: 50 ppm IOELV, Sens

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WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
PEL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 100 ppm Long-term value: 50 ppm DSEN, A4
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 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.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures** Immediately remove all soiled and contaminated clothing
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Hand protection** Protective gloves.
- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **Penetration time of glove material**  
0,3 mm  
Penetration time 60 min.  
0,11 mm  
Penetration time 10 min.
- **Eye/face protection** Safety glasses
- **Body protection:**  
Protective work clothing.  
(Only when handling large quantities)

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** undetermined
- **Boiling point or initial boiling point and boiling range** 101 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 2.1 Vol %
- **Upper:** 12.5 Vol %
- **Flash point:** 10 °C
- **Auto-ignition temperature:** 430 °C
- **Decomposition temperature:** Not determined.
- **pH** Mixture is non-soluble (in water).  
Not determined.
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **dynamic:** Not determined.
- **Solubility**
- **Water:** (20 °C) 8,0 g/l
- **Partition coefficient n-octanol/water (log value)** Not determined.

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· <i>Vapour pressure at 20 °C:</i>	47 hPa
· <i>Density and/or relative density</i>	
· <i>Density:</i>	Not determined
· <i>Relative density</i>	Not determined.
· <i>Vapour density</i>	Not determined.

· <b>9.2 Other information</b>	
· <i>Appearance:</i>	
· <i>Form:</i>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <i>Ignition temperature:</i>	Product is not selfigniting.
· <i>Explosive properties:</i>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <i>Change in condition</i>	
· <i>Evaporation rate</i>	Not determined.

· <b>Information with regard to physical hazard classes</b>	
· <i>Explosives</i>	Void
· <i>Flammable gases</i>	Void
· <i>Aerosols</i>	Void
· <i>Oxidising gases</i>	Void
· <i>Gases under pressure</i>	Void
· <i>Flammable liquids</i>	Highly flammable liquid and vapour.
· <i>Flammable solids</i>	Void
· <i>Self-reactive substances and mixtures</i>	Void
· <i>Pyrophoric liquids</i>	Void
· <i>Pyrophoric solids</i>	Void
· <i>Self-heating substances and mixtures</i>	Void
· <i>Substances and mixtures, which emit flammable gases in contact with water</i>	Void
· <i>Oxidising liquids</i>	Void
· <i>Oxidising solids</i>	Void
· <i>Organic peroxides</i>	Void
· <i>Corrosive to metals</i>	Void
· <i>Desensitised explosives</i>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 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:**  
methyl methacrylate      LD-50 oral      >5000 mg/kg rat (lit.)  
LD-50 inhalativ 7093 ppm/4h rat (lit.)

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- **Primary irritant effect:**
- **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  
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.
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Type of test** **Effective concentration** **Method** **Assessment**  
 Toxicity to fish: LC-50: >79 mg/l OECD 203  
 (MMA) NOEC: 40 mg/l ISO 7346  
 Time: 96 h EEC84  
 Species:  
*Oncorhynchus mykiss*  
  
 Toxicity to Micro- ECO: 100 mg/l starting inhibition  
 Organisms Species: of cell growth  
 (MMA) *Pseudomonas putida*
- **12.2 Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Components:**  
 methyl methacrylate Biodegradability: 30,7 %  
 Time: 28 d  
 Method: OECD 301 C  
 Valuation: difficult to decompose
- **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**
- **Remark:** Toxic for fish
- **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.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms

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## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

07 01 04*	other organic solvents, washing liquids and mother liquors
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#### · Uncleaned packaging:

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

## SECTION 14: Transport information

### · 14.1 UN number or ID number

#### · ADR, IMDG, IATA

UN1247

### · 14.2 UN proper shipping name

#### · ADR

1247 METHYL METHACRYLATE MONOMER, STABILIZED, ENVIRONMENTALLY HAZARDOUS

#### · IMDG

METHYL METHACRYLATE MONOMER, STABILIZED, MARINE POLLUTANT

#### · IATA

METHYL METHACRYLATE MONOMER, STABILIZED

### · 14.3 Transport hazard class(es)

#### · ADR



#### · Class

3 (F1) Flammable liquids.

#### · Label

3

#### · IMDG



#### · Class

3 Flammable liquids.

#### · Label

3

#### · IATA



#### · Class

3 Flammable liquids.

#### · Label

3

### · 14.4 Packing group

#### · ADR, IMDG, IATA

II

### · 14.5 Environmental hazards:

Product contains environmentally hazardous substances:  
di-urethane dimethacrylate

#### · Marine pollutant:

No

Symbol (fish and tree)

#### · Special marking (ADR):

Symbol (fish and tree)

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· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	C
· <b>Stowage Code</b>	SW1 Protected from sources of heat. SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED, 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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- **National regulations**
- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 16: Other information

*This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.*

*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.*

*H315 Causes skin irritation.*

*H317 May cause an allergic skin reaction.*

*H335 May cause respiratory irritation.*

*H411 Toxic to aquatic life with long lasting effects.*

- **Department issuing SDS:** *R&D, MANI MEDICAL GERMANY GmbH*

- **Contact:** *Fr. R.Naveenakumar*

- **Date of previous version:** *21.03.2024*

- **Abbreviations and acronyms:**

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

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organisation*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*

*ADR: Accord relatif au transport international 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 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*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

- **\* Data compared to the previous version altered.**