# Safety data sheet

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

Printing date 23.12.2024

Version: 1

Revision: 23.12.2024

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

· 1.1 Product identifier

• Trade name: <u>New Outline Liquid</u>

- · Article number: 16100100, 16100250, 16100500, 16101000, 16100025
- 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 Manufacture of dental prothesis

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.
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- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful 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



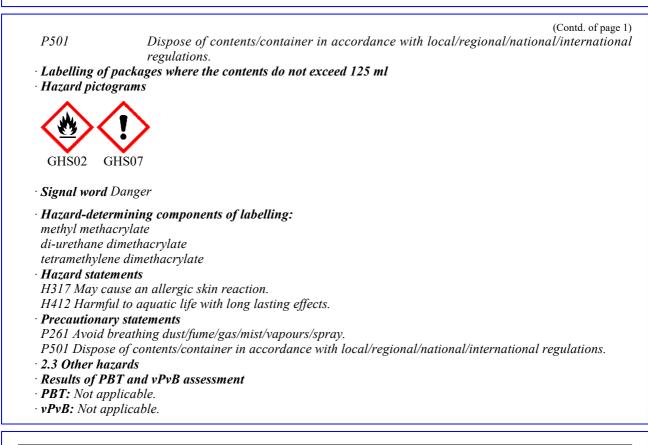
· Signal word Danger

g components of labelling:
e
acrylate
ethacrylate
able liquid and vapour.
rritation.
1 allergic skin reaction.
spiratory irritation.
quatic life with long lasting effects.
ements
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
smoking.
Use explosion-proof [electrical/ventilating/lighting] equipment.
Avoid breathing dust/fume/gas/mist/vapours/spray.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
water [or shower].
Store locked up.
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### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description:

Liquid based on methacryl acid ester, containing an activator, used for the production of temporary crowns and bridges in dental medicine.

· Dangerous components:			
CAS: 80-62-6	methyl methacrylate 50-		
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335		
CAS: 41137-60-4			
	🚯 Aquatic Chronic 2, H411; 🚸 Skin Sens. 1B, H317		
CAS: 2082-81-7			
EINECS: 218-218-1	♦ Skin Sens. 1B, H317		
Additional information For the wording of the listed hazard phrases refer to section 16			

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
- If skin irritation continues, consult a doctor.
- Immediately wash with water and soap and rinse thoroughly.
- · 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.
- Call a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• **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

Fire-extinguishing powder

Foam

Water spray

• 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.

### **SECTION 6:** Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation
 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. 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

Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about fire - and explosion protection:

- Fumes can combine with air to form an explosive mixture. 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.* 

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

- $\cdot$  Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Storage class Not determined

• 7.3 Specific end use(s) No further relevant information available.

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Ingredients with limit values that require monitoring at the workplace:			
80-62-6 methyl methacryl			
OEL (Ireland)	Short-term value: 100 ppm Long-term value: 50 ppm IOELV, Sens		
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			
Individual protection mea General protective and hy Keep away from foodstuffs Immediately remove all so Wash hands before breaks	, beverages and feed. iled and contaminated clothing and at the end of work.		
Individual protection mea General protective and hy Keep away from foodstuffs Immediately remove all so Wash hands before breaks Avoid contact with the eye Respiratory protection: Not necessary if room is w	sures, such as personal protective equipment gienic measures , beverages and feed. iled and contaminated clothing and at the end of work. s and skin. ell-ventilated. rotective device when high concentrations are present. e gloves.		

General Information		
Physical state	Fluid	
Colour:	Clear	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	-48 °C	
Boiling point or initial boiling point and	boiling	
range	101 °C	
- Flammability	Not applicable.	

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Lower and upper explosion limit	
Lower:	2.1 Vol % (Literatur)
Upper:	12.5 Vol % (Literatur)
Flash point:	10 °C (DIN 51755)
Auto-ignition temperature:	430 °C (DIN 51794)
Decomposition temperature:	Not determined.
рН	Mixture is non-soluble (in water).
	Not determined.
	Not determined
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	47 hPa
Density and/or relative density	
Density:	Not determined
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	d
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Change in condition	
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
	<b>TT 1</b>
Corrosive to metals	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 Exothermic polymerization

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Printing date 23.12.2024 Version: 1 Revision: 23.12.2024 Trade name: New Outline Liquid (Contd. of page 5) · 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: -**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.) tetramethylene dimethacrylate LD-50 oral > 5000 mg/kg (rat) · 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. • 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 • Endocrine disrupting properties 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 NOEC: 40 mg/l ISO 7346 (MMA) *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. (Contd. on page 7)

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- · 12.7 Other adverse effects
- Remark: Harmful to fish

• Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

### **SECTION 13: Disposal considerations**

### · 13.1 Waste treatment methods

· Recommendation

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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

· Uncleaned packaging:

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

14.1 UN number or ID number ADR, IMDG, IATA	UN1247
14.2 UN proper shipping name ADR	1247 METHYL METHACRYLATE MONOMER, STABILIZED mixture
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED mixture
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.

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Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	С
Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOME
2	STABILIZED MIXTURE, 3, II

### **SECTION 15: Regulatory information**

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

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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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<sup>·</sup> Directive 2012/18/EU

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· National regulations

• Technical instructions (air):

 Class
 Share in %

 III
 2.5-10

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

### **SECTION 16: Other information**

*This Safety Data Sheets 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: 18.12.2024

· 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) ICAO: International Civil Aviation Organisation 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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • \* Data compared to the previous version altered.

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