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>Acryline Liquid</u>

- · Article number: 17100100, 17100500, 17101000
- · 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 self curing resin

• 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.

Eye Irrit. 2 H319 Causes serious eye 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 CLP regulation.

· Hazard pictograms



· Signal word Danger

· Hazard-det	ermining components of labelling:
methyl meth	acrylate
2-ethylhexyl	Imethacrylate
tetramethyle	ene dimethacrylate
· Hazard stat	ements
H225 Highl	y flammable liquid and vapour.
0.	es skin irritation.
H319 Cause	es serious eye irritation.
H317 May 6	ause an allergic skin reaction.
H335 May 6	cause respiratory irritation.
· Precaution	iry 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.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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Frade name: Acrylind	e Liquid		
P405	Store looked up		(Contd. of page 1)
P405 P501	Store locked up. Dispose of cont regulations.	ents/container in accordance with l	ocal/regional/national/international
· Labelling of pack · Hazard pictogran	ages where the co	ntents do not exceed 125 ml	
GHS02 GHS0	7		
• Signal word Dang	ger		
· Hazard-determin		f labelling:	
methyl methacryld 2-ethylhexyl meth	acrylate		
tetramethylene dir • Hazard statemen			
H317 May cause • Precautionary sta	an allergic skin red	action.	
P501 Dispose of a	contents/container	in accordance with local/regional/na	tional/international regulations.
• 2.3 Other hazards • Results of PBT a		nt	
• PBT: Not applica	ble.		
• vPvB: Not applied	able.		
SECTION 3.	Composition/in	formation on ingredients	
SECTION J.	-omposition/mj		
· 3.2 Mixtures			

· Dangerous compone	ents:	
CAS: 80-62-6	methyl methacrylate	75-100%
EINECS: 201-297-1	🚸 Flam. Liq. 2, H225; () Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 688-84-6	2-ethylhexyl methacrylate	10-25%
EINECS: 211-708-6		
CAS: 2082-81-7	tetramethylene dimethacrylate	2.5-10%
	🚯 Skin Sens. 1B, H317	
· Additional informat	ion For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- \cdot 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.

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.

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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
- Water haze
- Foam

Fire-extinguishing powder

- Carbon dioxide
- 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: No special measures required.
- Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 Ensure adequate ventilation
 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- 6.4 Reference to other sections
- See Section 13 for disposal information.
- See Section 8 for information on personal protection equipment.
- See Section 7 for information on safe handling

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- *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.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

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	ues 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/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm
PEL (USA)	Long-term value: 410 mg/m³, 100 ppm
REL (USA)	Long-term value: 410 mg/m³, 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: T	The lists valid during the making were used as basis.
κεχοικατοκν ηκοτρατιου.	
Respiratory protection: Not necessary if room is w Use suitable respiratory pa Filter A Hand protection Solvent r Material of gloves Butyl rubber, BR Nitrile rubber, NBR Penetration time of glove 0,3 mm Penetration time 60 min. 0,11 mm Penetration time 10 min. Eye/face protection Safety Body protection: Solvent resistant protective	rotective device when high concentrations are present. resistant gloves material

- · Colour:
- · Odour:
- Odour threshold:
- Melting point/freezing point:

Colourless Characteristic Not determined. undetermined

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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.
рН	Not determined
	Mixture is non-soluble (in water).
	Not determined.
Viscosity:	
Kinematic viscosity	Not determined
·	Not determined.
dynamic:	Not determined
	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	17 101 W
Density:	Not determined
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid nd
Form: Important information on protection of health a environment, and on safety.	nd
Form: Important information on protection of health a environment, and on safety. Ignition temperature:	nd Product is not selfigniting.
Form: Important information on protection of health a environment, and on safety. Ignition temperature:	nd Product is not selfigniting. Product is not explosive. However, formation of
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Form: Important information on protection of health a environment, and on safety. Ignition temperature: Explosive properties: Solvent content:	nd Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Form: Important information on protection of health a environment, and on safety. Ignition temperature: Explosive properties: Solvent content: Organic solvents:	nd Product is not selfigniting. Product is not explosive. However, formation of
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according to Regulation (EC) No 1907/2006, Article 31 Printing date 23.12.2024 Version: 1 Revision: 23.12.2024 Trade name: Acryline Liquid (Contd. of page 5) · Desensitised explosives 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 • 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: No dangerous decomposition products known **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.) · Primary irritant effect: · Skin corrosion/irritation Causes skin irritation. · Serious eve damage/irritation Causes serious eve irritation. · 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
(MMA) NOEC: 40 mg/l ISO 7346
Time: 96 h $EEC84$
Species:
Oncorhynchus mykiss
<i>Toxicity to Micro- ECO: 100 mg/l starting inhibition</i>
Organisms Species: of cell growth
(MMA) Pseudomonas putida
\cdot 12.2 Persistence and degradability No further relevant information available.
· Behaviour in environmental systems:
· Components:
methyl methacrylate Biodegradability: 30,7 %
<i>Time: 28 d</i>
Method: OECD 301 C

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	It to decompose
· 12.3 Bioaccumulative potential No furth	
· 12.4 Mobility in soil No further relevant	t information available.
· 12.5 Results of PBT and vPvB assessme	ent
• PBT: Not applicable.	
• vPvB: Not applicable.	
· 12.6 Endocrine disrupting properties	
The product does not contain substances	s with endocrine disrupting properties.
· 12.7 Other adverse effects	1 01 1
• Additional ecological information:	
General notes:	
Water hazard class 1 (German Regulation	on) (Self-assessment): slightly hazardous for water.
	ge quantities of it to reach ground water, water course or sewage
system.	
SECTION 13: Disposal consider	rations
-	
13.1 Waste treatment methods	
· Recommendation	
Must be specially treated adhering to off	
Must not be disposed together with hous	wehold garbage. Do not allow product to reach sewage system.
· European waste catalogue	
07 01 04 [*] other organic solvents, washi	ing liquids and mother liquors
07 01 04 Other organic solvenis, washi	ing liquids and mother liquors
. Uncloaned packaging.	
• Uncleaned packaging: • Recommendation: Disposal must be ma	de according to official regulations.
• Recommendation: Disposal must be ma SECTION 14: Transport information • 14.1 UN number or ID number	ation
• Recommendation: Disposal must be ma SECTION 14: Transport informed	
• Recommendation: Disposal must be ma SECTION 14: Transport informa • 14.1 UN number or ID number • ADR, IMDG, IATA	ation
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accoraing to Regulation	n (EC) No 190//2000, Article 51	
Printing date 23.12.2024	Version: 1	Revision: 23.12.2024
Frade name: Acryline Liquid		
		(Contd. of page 7)
· 14.4 Packing group · ADR, IMDG, IATA	Ш	
 14.5 Environmental hazards: Marine pollutant: 	No	
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids. 339 F-E,S-D B	
· Stowage Code	SW2 Clear of living quarters.	

 14.7 Maritime transport in bulk according instruments 	g to IMO Not applicable.
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	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 $(\widetilde{E}Q)$	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 MONOMEI
č	STABILIZED MIXTURE, 3, II

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 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.

(Contd. on page 9)

[·]IE

Printing date 23.12.2024

Version: 1

Revision: 23.12.2024

Trade name: Acryline Liquid

	(Contd. of ion (EC) No 111/2005 laying down rules for the monitoring of trade between the Communit
	untries in drug precursors the ingredients is listed.
None of	ine ingreatents is tistea.
Nationa	l regulations
	tion about limitation of use:
	nent restrictions concerning juveniles must be observed.
	nent restrictions concerning pregnant and lactating women must be observed.
	al instructions (air):
Class	Share in %
III	2.5-10
	azard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. emical safety assessment: A Chemical Safety Assessment has not been carried out.
SECT	ION 16: Other information
	fety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amend
Regulat	ion (EU) 2020/878.
	prmation is based on our present knowledge. However, this shall not constitute a guarantee for
	product features and shall not establish a legally valid contractual relationship.
	t phrases
	ighly flammable liquid and vapour. auses skin irritation.
	ay cause an allergic skin reaction.
	auses serious eye irritation.
	ay cause respiratory irritation. armful to aquatic life with long lasting effects.
	nent issuing SDS: R&D, MANI MEDICAL GERMANY GmbH : Fr. R.Naveenakumar
	previous version: 22.03.2024
	ations and acronyms:
	'ement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concern nal Transport of Dangerous Goods by Rail)
ICAO: Int	ernational Civil Aviation Organisation
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concern nal Carriage of Dangerous Goods by Road)
	ternational Maritime Code for Dangerous Goods ernational Air Transport Association
	bally Harmonised System of Classification and Labelling of Chemicals
	European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances
	mical Abstracts Service (division of the American Chemical Society)
	hal concentration, 50 percent hal dose, 50 percent
PBT: Per	istent, Bioaccumulative and Toxic
	y Persistent and very Bioaccumulative 2: Flammable liquids – Category 2
Flam. Lio	2: Skin corrosion/irritation – Category 2
Skin Irrit.	2: Serious eye damage/eye irritation – Category 2
Skin Irrit. Eye Irrit.	1: Skin sensitisation – Category 1
Skin Irrit. Eye Irrit. Skin Sens Skin Sens	1: Skin sensitisation – Category 1 1B: Skin sensitisation – Category 1B
Skin Irrit. Eye Irrit. Skin Sens Skin Sens STOT SE	