Revision: 06.07.2023



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.07.2023

Version number 9 (replaces version 8)

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

- · 1.1 Product identifier
- · Trade name: ACRY C&B LIQUIDO SELF CURING
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages PW Widespread use by professional workers
- · Application of the substance / the mixture Material for dental use
- · Uses advised against Any use other than those identified is not recommended.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dental Manufacturing S.p.a. Via Cà Mignola Nuova, 1699

45021 - Badia Polesine (RO) - Italy

Tel. +39 0425 51628 - Fax +39 0425 590156

- · Further information obtainable from: info @ruthinium.it
- · 1.4 Emergency telephone number:

Dental Manufacturing S.p.a. - Tel. +39 0425 51628 (Office Hours)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

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



GHS07

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 CLP regulation.

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate ethylene 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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Labelling of packages where the contents do not exceed 125 ml

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate ethylene dimethacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

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 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28- xxxx	methyl methacrylate Stimul Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	80-100%
CAS: 97-90-5 EINECS: 202-617-2 Index number: 607-114-00-5 Reg.nr.: 01-2119965172-38- 0000	ethylene dimethacrylate ③ Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10%	1-2%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9 Reg.nr.: 01-2119956633-31	N,N-dimethyl-p-toluidine → Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; → Carc. 2, H351; STOT RE 2, H373; Aquatic Chronic 3, H412	0.1-<1%

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

- IE

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Rescue workers must wear the protective equipment described in section 8.2 of this safety data sheet.

· IF INHALATED:

Supply fresh air and to be sure call for a doctor.

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

If ingested do not induce vomiting, seek medical assistance showing the safety data sheet or the

- · 4.2 Most important symptoms and effects, both acute and delayed Skin: irritation
- 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.
- · 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:

Use respiratory protection

Wear personal protective clothing.

See Section 8 for information on personal protection equipment.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

See Section 8 for information on personal protection equipment.

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.

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

You should follow the usual precautions for handling chemical products Avoid contact with eyes and skin.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · 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: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

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:

CAS: 80-62-6 methyl methacrylate (80-100%)

OEL Short-term value: 100 ppm Long-term value: 50 ppm

IOELV, Sens

 ח	N	F	le

CAS: 80-62-6 methyl methacrylate

Dermal	Long term, local effect	1.5 mg/kg (general population)
		1.5 mg/kg (general population) 1.5 mg/kg (professional workers)
	Long term, systemic effect	13.67 mg/kg (professional workers)
	Long term, systemic effect	8.2 mg/kg bw/day (general population)
Inhalative	Long term, local effect	105 mg/m3 (general population)
		210 mg/m3 (professional workers)
	Long term, systemic effect	74.3 mg/m3 (general population)
		210 mg/m3 (professional workers)
CAS: 97-0	00-5 ethylene dimethacryla	nte

:AS: 97-90-5 etnylene almetnacrylate

Dermal	Long term, systemic effect	1.3 mg/kg (professional workers)
Inhalative	Long term, systemic effect	2.45 mg/m3 (professional workers)

· PNECs

CAS: 80-62-6 methyl methacrylate

PNEC 5.74 mg/kg (fresh water sediments)

PNEC 0.94 mg/l (freshwater)

0.094 mg/l (marine water)

CAS: 97-90-5 ethylene dimethacrylate

PNEC 0.139 mg/l (freshwater)

0.0139 mg/l (marine water)

- · 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. (Contd. on page 5)

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· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Breakthrough time:> = 480 min - Material thickness:> = 0.7 mm Breakthrough time:> = 60 min - Material thickness:> = 0.5 mm Breakthrough time:> = 30 min - Material thickness:> = 0.2 mm

Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

Colour: Colourless
 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.

· Lower and upper explosion limit

Lower: 2.1 Vol %
 Upper: 12.5 Vol %
 Flash point: 10 °C
 Auto-ignition temperature: 430 °C

· pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

Solubility

• water at 20 °C: 1.6 g/l Soluble.

· 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: 0.95 g/cm³

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Trade name: ACRY C&B LIQUIDO SELF CURING

		(Contd. of page 5)
· Relative density · Vapour density	Not determined. Not determined.	
· 9.2 Other information · Appearance: · Form:	Liquid	

· Important information on protection of health

and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Change in condition

Not determined. · Evaporation rate

· Information with regard to physical hazard classes · 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
- 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: Avoid contact with acids and oxidants.
- · 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:

ATE (Acu	ATE (Acute Toxicity Estimates)	
Oral	LD50	12,500 mg/kg (rat)
Dermal	LD50	37,500 mg/kg (rat)
Inhalative	LC50/4 h	175 mg/l (rat)

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		(Contd. of page 6)	
CAS: 80-6	CAS: 80-62-6 methyl methacrylate		
Oral	LD50	7,872 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	33 mg/l (mouse)	
		29.8 mg/l (rat)	
CAS: 97-9	CAS: 97-90-5 ethylene dimethacrylate		
Oral	LD50	3,300 mg/kg (rat)	
CAS: 99-9	CAS: 99-97-8 N,N-dimethyl-p-toluidine		
Oral	LD50	100 mg/kg (rat)	
Dermal	LD50	300 mg/kg (rat)	
Inhalative	LC50/4 h	1.4 mg/l (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.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquat	· Aquatic toxicity:		
CAS: 8	30-62-6 methyl methacrylate		
CL50	>79 mg/l (fish) (Esposizione 96 h)		
EC50	69 mg/kg (daphnia)		
EC50	>110 mg/l (algae) (Esposizione 72 h)		
69 mg/l (daphnia) (Esposizione 48 h)			
NOEC	37 mg/l (daphnia)		
	9.4 mg/l (fish)		
CAS:	97-90-5 ethylene dimethacrylate		
EC50	6.93 mg/l (algae) (OCSE 201, 72h)		
	44.9 mg/l (daphnia) (Esposizione 48 h)		
NOEC	NOEC 5.05 mg/l (daphnia)		

- · 12.2 Persistence and degradability Easily biodegradable
- · 12.3 Bioaccumulative potential Non significant accumulation in organisms
- · 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 substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

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The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · 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

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

Do not discard the product or its packaging. Do not empty into drains. Recycle the product. When recycling is not possible, dispose through an authorized company in compliance with the local or national regulations. The assignment of the waste code is the user's responsibility, after determining the properties of the waste and the process generating it and after discussing it with the authorities responsible for disposal.

- Uncleaned packaging:
- Recommendation:

Empty the containers before disposal. Do not reuse the emptied containers. Send the empty containers to recycling or to an authorized company in compliance with local and national regulations.

· Recommended cleansing agents: Water.

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 solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED solution
14.3 Transport hazard class(es)	
· Class	3 Flammable liquids.
· 14.4 Packing group · ADR, IMDG, IATA	II
· 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

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	(Contd. of page 8)
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according IMO instruments	g to Not applicable.
· Transport/Additional information:	
· ADR · 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) · 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":	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION, 3, II

SECTION 15: Regulatory information

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

Safety data sheet prepared in accordance with Regulation 1907/2006/EC Article 31, Regulation (EU) No 878/2020 as subsequent amendments.

- · 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.

· 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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

As required by Regulation 1272/2008/CE art. 9, the classification of this compound is based on the calculation method taken from the data of the single substances therein and from the experimental data of this compound where available (viewable in sections 9, 11 and 12 in this document).

Procedure used for the classification of the mixture

Flam. Lig. 2, H225 - According to experimental data

Skin Irrit. 2, H315 - Calculation method

Skin Sens 1 / 1A / 1B, H317 -Calculation method

STOT SE 3, H335 - Calculation method

· Version number of previous version: 8

Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3