Safety data sheet

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

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

· **1.1 Product identifier**

· **Trade name: ACRY POL LL LIQUIDO**
· **UFI:** PF10-J06W-600T-WYSC
· **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.

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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.
P261 Avoid breathing vapours.
P280 Wear protective gloves / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

· ***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 / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· ***2.3 Other hazards***

· ***Results of PBT and vPvB assessment***

· ***PBT:***
According to the available data, the product does not contain any PBT substances in a proportion ≥ 0.1%.

· ***vPvB:*** *According to the available data, the product does not contain vPvB substances in a proportion ≥ 0.1%.*

· ***Determination of 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;

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* *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* *Skin Sens. 1, H317; STOT SE 3, H335* *Specific concentration limit: STOT SE 3; H335: C ≥ 10 %*	*5-15%*

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· ***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***
· ***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.*
· ***After swallowing:***
If ingested do not induce vomiting, seek medical assistance showing the safety data sheet or the hazard label
· ***4.2 Most important symptoms and effects, both acute and delayed***
Skin: irritation
Skin contact: allergic skin reaction, redness, dryness.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
If any symptoms appear and/or if in doubt, contact a physician and provide this MSDS.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, sand, extinguishing powder. Do not use water.
CO2, powder or water spray. Fight larger fires with water spray.
· ***For safety reasons unsuitable extinguishing agents:***
Water with full jet
Do not use water jets that can cause the spread and extension of fire.
· ***5.2 Special hazards arising from the substance or mixture***
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
· ***5.3 Advice for firefighters***
· ***Protective equipment:***
As in any fire, wear self-contained breathing apparatus and appropriate protective clothing including gloves and eye / face protection.
See Section 8 for information on personal protection equipment.
· ***Additional information***
Do not inhale gases resulting from explosions and fires. Cool containers with jets of water to prevent decomposition of the product and the development of substances potentially hazardous to health.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
See Section 8 for information on personal protection equipment.
· ***For non-emergency personnel***
Provide adequate ventilation and move away from the danger area. For personal protection, see section 8.

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· **For emergency responders**
The intervention personnel must wear appropriate personal protective equipment (overalls, gloves, goggles and dust mask). Keep non-emergency personnel away from the affected area.
· **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Prevent seepage into sewage system, workpits and cellars.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
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**
You should follow the usual precautions for handling chemical products
Prevent formation of aerosols.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Emergency cooling must be available in case of nearby fire.

· **7.2 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 oxidising agents.
· **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 data; see section 1.2.

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

· **Regulatory information** OEL: 2024 CoP for the Safety, Health and Welfare at Work

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· **DNELs**

CAS: 80-62-6 methyl methacrylate		
Dermal	Long term, local effect	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: 97-90-5 ethylene dimethacrylate		
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:**
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:** Not necessary with sufficient ventilation, otherwise use protective mask (filter A)
· **Hand protection**
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

· **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
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**
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

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

· **Eye/face protection**



Tightly sealed goggles

· **Environmental exposure controls** *Observe safety measures related to the environment; refer to Section 6.2.*

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	*Liquid*
· **Colour:**	*Colourless*
· **Odour:**	*Characteristic*
· **Odour threshold:**	*Not determined.*
· **Melting point/freezing point:**	*Not relevant for product characterisation.*
· **Boiling point or initial boiling point and boiling range**	*101 °C*
· **Flammability**	*Highly flammable.*
· **Lower and upper explosion limit**	
· **Lower:**	*2.1 Vol %* *Not applicable (the product has no explosive properties).*
· **Upper:**	*12.5 Vol %* *Not applicable (the product has no explosive properties).*
· **Flash point:**	*10 °C*
· **Auto-ignition temperature:**	*430 °C*
· **Decomposition temperature:**	*Not determined as not relevant for product characterisation.*
· **pH**	*Not determined.*
· **Viscosity:**	
· **Kinematic viscosity**	*Not determined.*
· **Dynamic at 20 °C:**	*0.6 mPas*
· **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:**	*0.94 g/cm³*
· **Relative density**	*Not determined.*
· **Vapour density**	*Not determined.*
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	*Liquid*

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· **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.
· **Evaporation rate**	Not determined.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No hazardous reactions when stored and handled according to instructions
· **10.2 Chemical stability** The product is stable under normal conditions of use and storage
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** Reacts with catalysts, oxidising agents and strong alkali.
· **10.4 Conditions to avoid**
Excessive variations in temperature, below 0 ° C and above 40 ° C
Avoid exposing the product to high temperatures. Keep the product away from open flames. Avoid humidity.
· **10.5 Incompatible materials:** Avoid contact with acids and oxidants.
· **10.6 Hazardous decomposition products:**
When heated or in case of fire can release gases and vapors which are dangerous to health.
carbon monoxide, carbon dioxide
Nitrogen oxides (NOx)

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:**		
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: 97-90-5 ethylene dimethacrylate		
Oral	LD50	3,300 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**
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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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
CAS: 80-62-6 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	5.05 mg/l (daphnia)

· **12.2 Persistence and degradability** No further relevant information available.
· **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:**
According to the available data, the product does not contain any PBT substances in a proportion ≥ 0.1%.
· **vPvB:** According to the available data, the product does not contain vPvB substances in a proportion ≥ 0.1%.
· **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;
· **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**
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.

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· **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 mixture
· **IMDG, IATA**	METHYL METHACRYLATE MONOMER, STABILIZED mixture
· **14.3 Transport hazard class(es)**	
· **ADR, 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.
· **Hazard identification number (Kemler code):**	339
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **14.7 Maritime transport in bulk according to IMO 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

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· **UN "Model Regulation":** UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II

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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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
· **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. Liq. 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
· **Date of previous version:** 20.07.2023
· **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)

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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
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· ***Sources***

-Safety data sheets and data sheets of raw material suppliers.
-ECHA (EU), registered substances database.
-ECHA (EU), C&L inventory database.
-ECHA (EU), SVHC candidate substances.
-IARC (F), International Agency for Research on Cancer.
-ISS (I), Istituto Superiore di Sanità, Hazardous Substances Database.
-ACGIH (USA), American Conference of Governmental Industrial Hygienists.
-INRS (F), Institut National de Recherche et de Sécurité : Les Mélanges Explosifs.
-Ministry of the Environment (I), Ecotoxicological database on chemicals.
-IFA (D), Institut für Arbeitsschutz, GESTIS database on hazardous substances.
-ILO, International Labour Organization, International Chemical Safety Cards database.
-OECD, Organisation for Economic Co-operation and Development, eChemPortal database.
-WHO, World Health Organization, Chemical Safety Information database. -TOXNET (USA), Toxicology Data Network database.
-ATSDRC (USA), Agency for Toxic Substances & Disease Registry database.
-SCOEL Opinion for crystalline free silica (respirable dust), 2003.
-SCOEL Opinion for the presence of hexavalent chromium in cement, 2002.

· **** Data compared to the previous version altered.***