

SAFETY DATA SHEET

PMMA

REV. 3 - Date: 01/09/2024
ACCORDING REG. 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY NAME

- 1.1 Trade name** PMMACAM MONOCOLOR - PMMACAM MULTICOLOR - PMMACAST
- 1.2 Use of substance/preparation** For permanent prostheses, crowns and bridges up to 4/5 elements with the exception of PmmaCast which is used for structural tests of the oral cavity.
- 1.3 Company name:** CO.N.CE.P.T. srl
Via Respighi 15 - 43011 Busseto (PR) - Italy
- 1.4 Contacts for emergency**
- | | |
|------------------------|-------------------------|
| Phone: +39 0373 277346 | Mobile: +39 340 2686258 |
| Department Manager | Caso Aldo |
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2. HAZARDS IDENTIFICATION

- 2.1 Hazard description** N.A.
- Information concerning hazards for human and environment** The product does not have to be labelled due to the calculation procedure of the General Classification guideline for preparations of the EU in the latest valid version.
- Classification system** The classification is according to the latest edition of the EU-lists, and extended by company and literature.
- Additional information hazard** The contact with the skin may cause sensitization

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Description** Mixture of substances below with nonhazardous additions.
- 3.2 Components** Polymethyl methacrylate (PMMA): 100 weight %
Color pigments: ≤ 0,2 weight %
- 3.3 Hazardous components** None
- 3.4 Additional information** For the wording of the listed safety phrases refer to section 16.

4. FIRST AID MEASURES

- General information** No special measures required.
- After inhalation** Supply fresh air; consult doctor in case of complaints.
- After skin contact** Generally the product does not irritate the skin.
- After eye contact** Rinse opened eye for several minutes under running water.
- After swallowing** If symptoms persist consult doctor.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents** Use fire extinguishing methods suitable to surrounding conditions.
- Protective equipment** No special measures required.

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6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions	Not required.
Measures for environmental protection	No special measures required.
Measures for cleaning/collecting	Pick up mechanically.
Additional information	No dangerous substances are released.

7. HANDLING AND STORAGE

7.1 Handling	This product should only be handled by trained personnel. Ensure that suitable extractors are available on processing machines. Keep away from children.
Information about fire and explosion protection	No special measures required.
7.2 Storage	
Requirements to be met by storerooms and receptacles	No special requirements.
Information about storage in one common storage facility	Not required.
Further information about storage conditions	None

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure limits

TVL for methyl methacrylate	210mg/m ³
N° CaS	80-62-6
General limit value	1
Damage on the unborn	none if Tvi limit is not exceeded
tVI for benzoyl peroxide	5mg/m ³
N° CaS:	94-36-0
General limit value	1

8.2 Personal protective equipment

Additional information about design of technical facilities	No further data; see item 7.
Ingredients with limit values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists valid during the making were used as basis
Respiratory protection	Adequate ventilation is required. Wear protective mask.
Protection of hands	Avoid contact with skin. Wear protective gloves.
Material of gloves	Void
Penetration time of glove material	Void
Eye protection	Wear protective glasses
Skin protection	Protective work clothing
Hygienic measures	Wash hands with water and soap. Do not eat, drink, smoke or sniff while working. Keep away from food and drink. Do not swallow.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance	Colour of different shades
Odour	Odourless

9.2 Important information regarding health and environmental protection and safety

Change in condition

Boiling point/Boiling range	Undetermined.
PH-value	N.A.
Melting point	Approx. 102°C
Flash point	> 250°C method aStm-D 1929-68
Autoignition temperature	> 400°C aStm-D 1929-68
Lower explosive limit	N.A.
Upper explosive limit	N.A.
Vapor pressure	N.A.
Danger of explosion	Product does not present an explosion hazard.
Relative density	1.16 g/cm ³ at 20°C
Density of the mass	600-650 g/cm ³ at 20°C
Solubility water/fat	Insoluble in water, in fat n.a.
Solubility	Soluble in ester, ketones and hydrocarbons
Dynamic viscosity	N.A.
Other information	Explosions of powder may occur due to organic product that have origin in powder.
Solvent content	Organic solvents 0.0 % Solids content 100 %
Solids content	100%

9.3 TECHNICAL DATA

Polymethylmethacrylate	(PMMA)
Modulus of Elasticity	2390 Mpa
Blending strength	95 Mpa
Yield	60 Mpa
Tensile strength	82 Mpa
Water absorption	6%
Elongation	

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10. STABILITY AND REACTIVITY

Conditions to be avoided	Warming/exposure to sun rays.
Dangerous reactions	No dangerous reactions known.
Dangerous decomposition products	No dangerous decomposition products known, if instructions are followed.

11. TOXICOLOGICAL INFORMATION

When used and handled according to instructions, the product doesn't have any harmful effect.

11.1 Acute toxicity

Primary irritant effect	
- on the skin	No irritant effect.
- on the eye	No irritating effect.
Sensitization	No sensitizing effects known.

11.2 Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

General notes	Not known to be hazardous for water.
Ecotoxicity	N.A
Mobility	N.A
Persistence/degradability	N.A
Bioaccumulation potential	N.A
Other adverse effects	N.A

13. DISPOSAL CONSIDERATIONS

13.1 Product

Smaller quantities can be disposed of with household waste.

European waste catalogue

- 12 00 00 Wastes from shaping and physical and mechanical surface treatment of metals and plastics
- 12 01 00 Wastes from shaping and physical and mechanical surface treatment of metals and plastics
- 12 01 05 Plastics shavings and turnings

13.2 Packaging

Dispose of uncleaned packaging the same way of the product.
Packaging may be reused or recycled after cleaning.

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14. TRANSPORT INFORMATION

Land transport ADR/RID class	-
Maritime transport IMDG:	
IMDG Class	-
Marine pollutant	No
Air transport ICAO-TI /IATA-DGR:	
ICAO/IATA Class	-

15. REGULATORY INFORMATION

15.1 Labelling	According to 199/45/EC
Symbols of danger	None
Labelling according to EU guidelines	Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and Hazardous Materials Ordinance (German GefStoffV).
15.2 National regulations	
Waterhazard class	Generally not hazardous for water.

16. OTHER INFORMATION

Information in this safety data sheet is based on the current state of knowledge and experience.
The safety data sheet describes products with regard to safety requirements.

However, these specifications are no guarantee of product characteristics and do not establish any contractually-legal relationship.

The information is designed to provide you with a guide to safe handling of products mentioned in the safety data sheet during storage, transportation, processing and disposal.

Insofar as the product named in this safety data sheet is blended, mixed or processed with other materials, or subject to processing, the information in this safety data sheet cannot be transferred to the new material manufactured in this manner, provided nothing else is expressly achieved from this.

The information does not have the importance of statements of condition, assurances of certain characteristics or guarantees.