PMMA block / Artificial teeth OMP-N + HMP-N				
Revision date: 06.09.2017	Product code: D101-1		Page 1 of 8	
1. Identification				
Product identifier PMMA block / Artificial teeth	n OMP-N + HMP-N			
	lystar® Selection EDITION, integral®, Polyst N 2, DeltaForm®, Polystar Lux® HK	ar® Lux HK,		
Recommended use of the chemic	cal and restrictions on use			
Use of the substance/mixture				
The product is intended for	professional use.			
Uses advised against				
Do not use for private purpo	oses (household).			
Details of the supplier of the safe	ety data sheet			
Company name: Street: Place:	Merz Dental GmbH Eetzweg 20 D-24321 Lütjenburg (GERMANY)			
Telephone:	+49-(0)4381-403-0	Telefax: +49-(0)4381-403-100		
e-mail:	info@merz-dental.de	T-1		
Contact person: e-mail:	Dipl. Chem Dr. Thomas Panther Thomas.Panther@merz-dental.de	Telephone:+49-(0)4381-403-448		
Internet:	www.merz-dental.de			
Responsible Department:	Qualitätssicherung (Quality Assurance	)		
Emergency phone number:	+49-(0)551-19240 (Giftinformationszer	itrum-Nord)		
Further Information				
none				
2. Hazard(s) identification				
Classification of the chemical				
Regulation (EC) No. 1272/2008 This mixture is not classifier	d as hazardous in accordance with Regulatio	n (EC) No. 1272/2008.		
Label elements	· · · · · · · · · · · · · · · · · · ·			
Regulation (EC) No. 1272/2008				
• • • •				
Additional advice on labelling	the product to be specially labelled according	a to EC directives or the corresponding		

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

#### Hazards not otherwise classified

Harmful dust is produced during dry-state pulverisation. Inhalation of dust may cause irritation of the respiratory system.

## 3. Composition/information on ingredients

## <u>Mixtures</u>

## Chemical characterization

POLYMETHYL METHACRYLATE

#### **Further Information**

May cause sensitisation by skin contact.

Revision date: 06.09.2017

Product code: D101-1

Page 2 of 8

### 4. First-aid measures

#### Description of first aid measures

### General information

No special measures are necessary.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Inhalation of dust may cause irritation of the respiratory system. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. No known symptoms to date. Observe risk of aspiration if vomiting occurs. When in doubt or if symptoms are observed, get medical advice.

#### Most important symptoms and effects, both acute and delayed

Allergic reactions

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Apply cortisone spray at early stage.

### 5. Fire-fighting measures

## Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water mist, Foam, Carbon dioxide (CO2), Extinguishing powder

#### Unsuitable extinguishing media

High power water jet

#### Specific hazards arising from the chemical

Non-flammable. This material is combustible, but will not ignite readily. Exothermal decomposition with formation of: Carbon dioxide (CO2), Carbon monoxide.

## Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Wear a self-contained breathing apparatus and chemical protective clothing. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

## Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not inhale explosion and combustion gases.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Use personal protection equipment.

Revision date: 06.09.2017

Product code: D101-1

Page 3 of 8

## Environmental precautions

Do not allow to enter into surface water or drains. No special environmental measures are necessary. Avoid release to the environment.

## Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Wet clean or vacuum up solids. Use approved industrial vacuum cleaner for removal. Do not use a dry brush as dust clouds or static can be created.

## Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13 Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

## 7. Handling and storage

## Precautions for safe handling

#### Advice on safe handling

Measures to prevent aerosol and dust generation. Do not breathe dust. Dust should be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Further information on handling

Dust should be exhausted directly at the point of origin.

#### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

### Advice on storage compatibility

To follow: Storage class

#### Further information on storage conditions

Protect against direct sunlight.

#### 8. Exposure controls/personal protection

### **Control parameters**

#### Additional advice on limit values

Monitoring and observation processes: Monitoring and observation processes see for example "NIOSH Masnual of Analytical Methods", National Institute for Occupational Safety and Health.

#### Exposure controls



## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Hand tool with integrated exhaust. Use an "effective exhaust ventilation system" according to 2001/59/EC (Annex 7A).. Preferably use hand tools or low-speed tools equipped, if necessary, with an appropriate dust-extraction facility. If high-speed tools are used, they should always be equipped with such a facility.

Revision date: 06.09.2017

Product code: D101-1

Page 4 of 8

## Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. When using do not eat, drink, smoke, sniff. Do not breathe dust. General health and safety measures.

#### Eye/face protection

Wear eye/face protection. Dust protection eye glasses.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn. Wear cotton undermitten if possible. Take recovery periods for skin regeneration.

#### Skin protection

Wear suitable protective clothing. Wear suitable protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### **Environmental exposure controls**

No special environmental measures are necessary.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	solid	
Color:	whitish - light beige	
Odor:	odourless	
		Test method
pH-Value:	not applicable	
Changes in the physical state		
Melting point/freezing point:	not applicable	
Initial boiling point and boiling range:	not applicable	
Sublimation point:	not applicable	
Softening point:	not applicable	
Pour point:	not applicable	
Flash point:	> 250 °C	ASTM D 1929-68
Sustaining combustion:	Not sustaining combustion	
Flammability		
Solid:	not determined	
Gas:	not applicable	
Explosive properties The product in the delivered form is no the danger of dust explosion.	ot dust explosion capable; the enrichment of fine dust	however leads to
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Ignition temperature:	> 400 °C	ASTM D 1929-68
Auto-ignition temperature		

# Safety Data Sheet

PMMA block / Artificial teeth OMP-N + HMP-N				
evision date: 06.09.2017	Product code: D101-1	Page 5 of 8		
Solid: Gas:	not determined not applicable			
Decomposition temperature:	> 250 °C			
Oxidizing properties This material is combustible, but wil	I not ignite readily.			
Vapor pressure:	not applicable			
Vapor pressure:	not applicable			
Density:	1,189 – 1,198 g/cm³			
Bulk density:	not applicable			
Water solubility:	insoluble			
Solubility in other solvents not determined				
Partition coefficient:	not applicable			
Viscosity / dynamic:	not applicable			
Viscosity / kinematic:	not applicable			
Flow time:	not applicable			
Vapor density:	not applicable			
Evaporation rate:	not applicable			
Solvent separation test:	not applicable			
Solvent content:	not applicable			
ther information				
Solid content:	100 %			

none

## 10. Stability and reactivity

## **Reactivity**

No hazardous reaction when handled and stored according to provisions.

## **Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature. Decompostion takes place from temperatures above: >  $250 \degree$ C

## Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## Conditions to avoid

Harmful dust is produced during dry-state pulverisation.

## Incompatible materials

Oxidising agent, strong

## Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products: SECTION 8: Exposure controls/personal protection (Control parameters)

## Further information

none

## 11. Toxicological information

### Information on toxicological effects

Revision date: 06.09.2017

Product code: D101-1

Page 6 of 8

## Toxicocinetics, metabolism and distribution

No information available.

### Acute toxicity

Based on available data, the classification criteria are not met. No information available.

### Irritation and corrosivity

Based on available data, the classification criteria are not met. No information available.

#### Sensitizing effects

Based on available data, the classification criteria are not met.

May cause sensitisation especially in sensitive humans. People who suffer from skin sensitazion problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. Based on existing data the substance does not fullfill the criteria of CMR-substances Cat. 1 and 2 according 67/548/EEC. The ingredients in this mixture do not meet the criteria for classification as CMR category 1 A or 1B according to CLP. No indications of human germ cell mutagenicity exist. No indications of human reproductive toxicity exist.

#### Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met. No information available.

## Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met. No information available.

Carcinogenicity (IARC):	No ingredient of this mixture is listed.
Carcinogenicity (NTP):	No ingredient of this mixture is listed.

#### Aspiration hazard

Based on available data, the classification criteria are not met. No information available.

### Specific effects in experiment on an animal

No information available.

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. none

#### Practical experience

## Observations relevant to classification

No information available.

Other observations

No information available.

#### **Further information**

Toxicological data are not available. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Do not breathe dusts or mists.

## 12. Ecological information

## **Ecotoxicity**

Due to the consistency along with the low water solubility of the product a bioavailability is unlikely.

#### Persistence and degradability

There are no data available on the preparation/mixture itself. According to experiences this product is inert and not degradable.

Revision date: 06.09.2017

Product code: D101-1

Page 7 of 8

## **Bioaccumulative potential**

Water solubility < 1 mg/L at 20°C. The product has not been tested. On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

### Mobility in soil

No data available.

## Other adverse effects

No data available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. none

#### 13. Disposal considerations

#### Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste. Dispose according to legislation. Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

#### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Recycling possible without special treatment. May be disposed of in household waste landfill. Recycle sales packaging via DSD (Duales System Deutschland).

## 14. Transport information

US DOT 49 CFR 172.101	
Proper shipping name:	Not restricted
Marine transport (IMDG)	
UN number:	Not restricted
UN proper shipping name:	Not restricted
Transport hazard class(es):	Not restricted
Packing group:	Not restricted
Air transport (ICAO-TI/IATA-DGR)	
UN number:	Not restricted
UN proper shipping name:	Not restricted
Transport hazard class(es):	Not restricted
Packing group:	Not restricted
Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
Special precautions for user	
No information available.	
Transport in bulk according to Annex II of	MARPOL 73/78 and the IBC Code
not applicable	
Other applicable information	
No dangerous good in sense of this to	ransport regulation.

## 15. Regulatory information

PMMA block / Artificial teeth OMP-N + HMP-N		
Revision date: 06.09.2017	Product code: D101-1	Page 8 of 8
U.S. Regulations		
-	ent Act of 1986 (Proposition 65, State of California) own to the State of California to cause cancer, birth defects or other	
16. Other information		
Changes		
Revision date:	06.09.2017	
Revision No:	5	
This data sheet contains changes from	the previous version in section(s): 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16.	
Abbreviations and acronyms		
(European Agreement concerning the I IMDG: International Maritime Code for IATA: International Air Transport Associ GHS: Globally Harmonized System of EINECS: European Inventory of Existin ELINCS: European List of Notified Che CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%	ation Classification and Labelling of Chemicals ng Commercial Chemical Substances	
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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)