

Material Safety Data Sheet

according to (EC) No. 1907/2006

Date of issue: 10.08.2011

Version: 1

Revision date: 10.08.2018

1. Product identification/preparation/company undertaking

Trade name:	MetalBond 4M Plus/Metaphor
Use of the preparation:	Primer
Manufacturer/supplier:	S&C Polymer GmbH, D-25335 Elmshorn scpolymer@t-online.de
Emergency information:	Dr. Jürgen Engelbrecht ++49 4121 483-0
	Ultimate Dental Supply 660A South Rd MOORABBIN VIC 3189 03 9532 1799 03 9555 9458 ultimatedental.com.au www.ultimatedental.com.au
	13 11 26 Poisons Hotline (24 hours/ 7 days)

2. Hazards identification

Risk identification:	Highly flammable, Irritating
Special risks for human beings and environment:	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact
Classification:	Classification corresponds to actual EC guidelines, however completed with details from technical literature and company data.

3. Composition/Information of Ingredients

Chemical characterization:	Methacrylates, 4-Meta, initiators		
Description:			
Hazardous components:	<u>Name</u>	<u>Letter</u>	<u>R-classification</u>
EC-No.: 201-297-1	Methyl methacrylate	F, Xi	R 11-37/38-43
CAS-No.: 80-62-6			

4. First-aid measures

General information:	
after skin contact:	Wash off with plenty of water. In case of skin irritation, consult a physician.
after inhalation:	Fresh air. Consult a physician if feeling unwell.
after eye contact:	Rinse with plenty of water with the eyelid held wide open and consult an ophthalmologist
after swallowing:	Rinse mouth immediately and drink plenty of water. Seek medical advice if necessary.

Material Safety Data Sheet
according to (EC) No. 1907/2006

Date of issue: 10.08.2011

Version: 1

Revision date: 10.08.2018

5. Fire fighting measures

Extinguishing media:

CO₂, Water, powder, foam.

Protective equipment:

Chose in dependence to surrounding fire.

Material Safety Data Sheet

according to (EC) No. 1907/2006

Date of issue: 10.08.2011
Revision date: 10.08.2018

Version: 1

6. Accidental release measures

Personal precautions:	Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms.
Environmental precautions:	Do not allow to enter drains/ground-water.
Methods for cleaning up:	Take-up with liquid-adsorbent material. Forward for disposal. Clean up affected area.
Additional information:	Ventilate affected area.

7. Handling and storage

Handling:	
Handling procedures:	Keep containers closed. Use only in well ventilated areas.
Recommendation for fire and explosion protection:	Keep away from sources of ignition. Take measure to prevent electrostatic charge
storage:	Store at dry place (2 – 8 °C)
Requirements at storerooms and containers:	Tightly closed in a well ventilated place. Protected from light.
Requirements for storage with other products:	Store away from food stuffs.
Additional storage conditions:	--

8. Exposure controls/personal protection

Additional information for technical plants: None.

Components with limits of values to be supervised at the workplace:

CAS-Nr.	Name	art	value	unit
[80-62-6]	Methyl methacrylate	TRGS 900 (Germany)	210	mg/m ³
		resp.	50	ml/m ³

Additional information:**Personal protective equipment:**

General measures of protection and hygiene:	Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the handled substances.
respiration:	Required when vapours/aerosols are generated. Filter A
hands:	Protective gloves (butyl-rubber).
eyes:	Safety glasses.

Material Safety Data Sheet

according to (EC) No. 1907/2006

Date of issue: 10.08.2011

Version: 1

Revision date: 10.08.2018

9. Physical and chemical properties

Appearance

Form:	Liquid.		
Colour:	Colourless.		
Odour:	Characteristic		
	Value	Unit	Method

Information on change in the physical state

Melting point/melting range:	n.a.	°C	
Boiling point/boiling range:	101	°C	
Flash point:	10	°C	DIN 51794
Autoignition temperature:	No information available		
Danger of explosion:	Lower	2.1	Vol %
	Upper	12.5	Vol %
Density:		g/cm ³	
Vapour pressure:	n.d.		
Viscosity:	n.d.		
pH:	n.a.		
Solubility in/miscibility with:	Organic solvents		
Water:	Slightly soluble		
Content of solvents:			
Organic solvents:	None		
Water:	---		
Content of solids:	None		

10. Stability and reactivity

Incompatibility with other substances:	Warming > 50°C. Exposure to light
Hazardous decomposition products:	Not known.

11. Toxicological information

	allergic reaction to methacrylate by chronic exposure to product are possible
Acute toxicity:	LD ₅₀ (rat/oral): 7872 mg/kg
Primary irritation:	
skin:	irritating
eye:	irritating.
ingestion:	harmful.
sensitisation	Sensitising in case of skin contact possible
Additional toxicological information:	Liquid is irritant.

Material Safety Data Sheet

according to (EC) No. 1907/2006

Date of issue: 10.08.2011
Revision date: 10.08.2018

Version: 1

12. <u>Ecological information</u>	
General information:	Do not allow to enter drains/canalisation/ground-water
Classification of water endangerment:	WGK = 1 (slightly polluting substance).
13. <u>Disposal consideration</u>	
Product:	
Recommendation:	Dispose of waste according to applicable local, state, and federal regulations.
Disposal key number:	
Uncleaned packaging:	Handle contaminated packaging in the same way as the substance itself.
Recommendation:	
14. <u>Transport information</u>	
Land transport ADR, RID	UN 1247 METHYLMETHACRYLAT, MONOMER, STABILISIERT, 3,II
Sea transport IMDG	UN 1247 METHYL METHACRYLATE, MONOMER, STABILIZED, 3, II EmS: F-E S-D
Air transport ICAO-TI/IATA-DGR	UN 1247 METHYL METHACRYLATE, MONOMER, STABILIZED, 3, II The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.
15. <u>Regulatory information</u>	
Classification according to EC-guidelines:	Xi Irritant F Highly flammable R 11- Highly flammable. 37/38 Irritating to respiratory system and skin. R 43 May cause sensitization by skin contact. S 24 Avoid contact with skin. S 37 Wear suitable gloves
National Prescriptions:	None
16. <u>Other information:</u>	
Changes compared with the previous version:	
	The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.
Preparation by:	Dr. Jürgen Engelbrecht, Tel.: ++49/4121/483-0