

according to Regulation (EC) No 1907/2006

metablue

Revision date: 25.08.2022	Product code: 135091	0 Page 1 of
SECTION 1: Identification of the second seco	ne substance/mixture and of the comp	any/undertaking
1.1. Product identifier		
metablue		
1.2. Relevant identified uses of the	ne substance or mixture and uses advised	against
Use of the substance/mixture		
light curing dental resin		
1.3. Details of the supplier of the	safety data sheet	
Company name:	primotec - Joachim Mosch e.K	
Street:	Tannenwaldallee 4	
Place:	61348 Bad Homburg (GER)	
Telephone:	+49 (0)6172-997700-0	Telefax: +49 (0)6172-997700-99
e-mail:	primotec@primogroup.de	
Internet:	www.primogroup.de	
Responsible Department:	F&E	
	Telefax +49 (0)6172-997700-99	
1.4. Emergency telephone	Giftinformationszentrum Universitätski	linikum Mainz
number:	Telefon +49 (0)6131-19240	

# number:

**SECTION 2: Hazards identification** 

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

Hazard components for labelling urethane dimethacrylate (UDMA) Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) 1,4 Butanediol dimethacrylate (1,4-BDDMA)

Warning

Signal word:

Pictograms:



# Hazard statements

H317

May cause an allergic skin reaction.

### **Precautionary statements**

Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Gently wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Dispose of contents/container in accordance with local regulation.

# Special labelling of certain mixtures

Restricted to professional users.



according to Regulation (EC) No 1907/2006

# metablue

Revision date: 25.08.2022

Product code: 1350910

Page 2 of 8

# 2.3. Other hazards

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Chemical characterization

Mixture of acrylic resins and initiators.

### Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (Regulation (EC	C) No 1272/2008)	-			
72869-86-4	urethane dimethacrylate (UDI	MA)		< 25 %		
	Skin Sens. 1, Aquatic Chronic 2; H317 H411					
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)					
	278-355-8 015-203-00-X					
	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411					
2082-81-7	1,4 Butanediol dimethacrylate (1,4-BDDMA)					
	Skin Sens. 1B; H317					

# Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc	. Limits, M-factors and ATE	
72869-86-4		urethane dimethacrylate (UDMA)	< 25 %
	inhalation: LC	250 = >5 mg/l (dusts or mists); oral: LD50 = >2000 mg/kg	
75980-60-8	278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	< 1 %
	oral: LD50 =	> 5000 mg/kg	
2082-81-7		1,4 Butanediol dimethacrylate (1,4-BDDMA)	< 1 %
	dermal: LD50	) = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg	

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

#### General information

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately.

## After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

#### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

### After ingestion

Do NOT induce vomiting. Medical treatment necessary.

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

No information available.



according to Regulation (EC) No 1907/2006

metablue

Revision date: 25.08.2022

Product code: 1350910

Page 3 of 8

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Foam. Extinguishing powder Carbon dioxide

#### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide Hazardous decomposition products

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

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

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide good room ventilation.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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

### Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

# Hints on joint storage

No special measures are necessary.



according to Regulation (EC) No 1907/2006

metablue	

Revision date: 25.08.2022

Product code: 1350910

Page 4 of 8

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# 8.2. Exposure controls

# Individual protection measures, such as personal protective equipment

### Eye/face protection

tightly fitting goggles

#### Hand protection

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

### Skin protection

Wear suitable protective clothing.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

ned ned
ned
ble
ble
ned
ned
°C
ned
ned
ed
be
ter.
ned
ned
ned
ned
ble
ble
ned
ned
a∙s

# Product has not been tested. The statement is derived from the properties of the components.



according to Regulation (EC) No 1907/2006

# metablue

Revision date: 25.08.2022

Product code: 1350910

Page 5 of 8

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

#### 10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

### 10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, acids, Alkali (lye)

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## **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.

CAS No	Chemical name	hemical name					
	Exposure route	Dose		Species	Source	Method	
72869-86-4	urethane dimethacrylate	(UDMA)					
	oral	LD50 mg/kg	>2000	Rat	OECD 401		
	inhalation (4 h) dust/mist	LC50	>5 mg/l				
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)						
	oral	LD50 mg/kg	> 5000	Rat	RTECS		
2082-81-7	1,4 Butanediol dimethacrylate (1,4-BDDMA)						
	oral	LD50 mg/kg	> 5000	Rat	OECD 401		
	dermal	LD50 mg/kg	> 3000	Rabbit			

# Irritation and corrosivity

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

#### Sensitising effects

May cause an allergic skin reaction. (urethane dimethacrylate (UDMA); Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO); 1,4 Butanediol dimethacrylate (1,4-BDDMA)) Possible sensitization in case of persons suffering from hypersensitivity.

# Carcinogenic/mutagenic/toxic effects for reproduction

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

## STOT-single exposure

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



# according to Regulation (EC) No 1907/2006

# metablue

Revision date: 25.08.2022

Product code: 1350910

Page 6 of 8

# 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.

#### Further information

Product has not been tested. The statement is derived from the properties of the components.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d] Species	Source	Method
72869-86-4	urethane dimethacrylate (l	JDMA)			
	Acute fish toxicity	LC50 10,1 mg/l	96 h Danio rerio (zebrafish)	OECD 203	
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
	Acute crustacea toxicity	EC50 3,53 mg/l	48 h Daphnia		

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
72869-86-4	urethane dimethacrylate (UDMA)			
	Biodegradation 22 % 28 OECD 301 F			

## 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

# **Further information**

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.



# according to Regulation (EC) No 1907/2006

# metablue

Revision date: 25.08.2022

Product code: 1350910

Page 7 of 8

### List of Wastes Code - residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

#### List of Wastes Code - contaminated packaging

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

#### **Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

# Land transport (ADR/RID)

# Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

# Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

# Marine transport (IMDG)

Other applicable information (marine transport) No dangerous good in sense of these transport regulations.

# Air transport (ICAO-TI/IATA-DGR)

# Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

# 14.6. Special precautions for user

No information available.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

# National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

SECTION 2: Hazards identification und SECTION 3: Composition/information on ingredients Matter of revision: change of Classification SECTION 15: Regulatory information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport 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



# according to Regulation (EC) No 1907/2006

	metablue	
Revision date: 25.08.2022	Product code: 1350910	Page 8 of 8
EINECS: European Inventory ELINCS: European List of No CAS: Chemical Abstracts Ser LC50: Lethal concentration, 5 LD50: Lethal dose, 50%	vice	
Classification Classification procedure		
Skin Sens. 1; H317 Calculation method		

# Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

# **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)