

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.



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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.



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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.



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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

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



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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.



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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.



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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



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| 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.)