

Material Safety Data Sheet according to (EC) 1907/2006



Tradename:

DURASPLINT® LC

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SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Name of product: **DURASPLINT® LC**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Dental use.

1.3. Details of the supplier of the safety data sheet

Manufacturer / distributor

SCHEU DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: service@SCHEU-DENTAL.com

Internet: www.SCHEU-DENTAL.com

1.4. Emergency telephone number: +49 (2374) 9288-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1; H317

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard components for labelling

urethane dimethacrylate (UDMA)

acrylic resin

2,2-bis(acryloyloxymethyl)butyl acrylate (trimethylolpropane triacrylate)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Signal word: Warning

Hazard Pictograms: GHS07 – GHS09



Hazard statements

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

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Page: 2 von 8**Precautionary statements**

| | |
|-----------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P302+P352 | IF ON SKIN: Wwash with plenty of soap and water. |
| P333+P313 | Is skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents/container in accordance with local regulation. |

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**3.1. Substances**

not applicable

3.2. Mixtures

Mixture of acrylic resins, fillers and initiators.

Hazardous components

| EC No | Chemical name | Quantity |
|--------------|--|-----------|
| CAS No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| Index No | | |
| REACH-No | | |
| | urethane dimethacrylate (UDMA) | 40 – 70 % |
| 72869-86-4 | Skin Sens. 1, Aquatic Chronic 2; H317 H411 | |
| | acrylic resin | < 10 % |
| | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411 | |
| 239-701-3 | 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate | < 1 % |
| 15625-89-5 | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 | |
| 607-111-00-9 | | |
| 278-355-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) | < 1 % |
| 75980-60-8 | Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411 | |
| 015-203-00-X | | |

Additional information

For the wording of the listed H-phrases refer to section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|-----------|
| | | Specific Conc. Limits, Mfactors and ATE | |
| 72869-86-4 | | Urethandimethacrylat (UDMA) | 40 – 70 % |
| | | inhalation: LC50 = >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 | |

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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 further relevant information available.

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, Fire-extinguishing powder, Carbon dioxide (CO₂)

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

Special protective equipment for fire fighters:

In case of fire: Wear self-contained respiratory protective device.

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

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

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

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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.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

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.

Advice on storage compatibility

No special measures are necessary.

Storage class:

7.3. Specific end use(s)

No further relevant information available.

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

General Information

| | |
|-----------------------|----------------|
| Physical state | pasty |
| Colour | transparent |
| Odour | characteristic |
| pH-Value: | not determined |

Changes in the physical state

| | |
|--|----------------|
| Melting point | not determined |
| Initial boiling point and boiling range | not determined |
| Flash point | > 100 °C |
| Flammability | |

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| | |
|---------------------------------------|---|
| Solid | not applicable |
| Gas | not applicable |
| Lower explosion limits | not determined |
| Upper explosion limits | not determined |
| Auto-ignition temperature | |
| Solid | not applicable |
| Gas | not applicable |
| Decomposition temperature | not determined |
| Vapour pressure | not determined |
| Density | not determined |
| Water solubility | The study does not need to be conducted because the substance is known to be insoluble in water |
| Solubility in other solvents | |
| The substance is not soluble in water | |
| Partition coefficient | not determined |
| Vapour density | not determined |
| Evaporation rate | not determined |

9.2. Other information

Solid content not determined

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

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.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological Information**11.1. Information on toxicological effects****Acute toxicity**

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

| CAS No. | Chemical name | | | |
|------------|---|------------------|---------|----------|
| | Exposure route | Method Dose | Species | Source |
| 72869-86-4 | urethane dimethacrylate (UDMA) | | | |
| | oral | LD50 >2000 mg/kg | Rat | OECD 401 |
| | inhalation (4 h) dust/mist | LC50 >5 mg/kg | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) | | | |
| | oral | LD50 >5000 mg/kg | Rat | RTECS |

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Irritation an corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (urethane dimethacrylate (UDMA)); acrylic resin; 2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate); Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO))
Possible sensitization in case of persons suffering from hypersensitivity.

CMR effects (carcinogenic, mutagenic and 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.

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

The product has not been tested.

Aquatic toxicity:

| CAS No | Chemical name | Method | Dose | [h] | [d] | Species | Source |
|------------|--|--------|-----------|------|-----|-------------------------------|----------|
| 72869-86-4 | urethane dimethacrylate (UDMA) | | | | | | |
| | Acute fish toxicity | LC50 | 10,1 mg/l | 96 h | | Brachydanio 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.

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 an 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.

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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.

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.
Classified as 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.
Classified as 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)

| | |
|-----------------------------------|--|
| 14.1. UN number: | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | |
| 14.4. Packing group: | |

Inland waterways transport (ADN)

| | |
|-----------------------------------|--|
| 14.1. UN number: | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | |
| 14.4. Packing group: | |

Marine transport (IMDG)

| | |
|-----------------------------------|--|
| 14.1. UN number: | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | |
| 14.4. Packaging group: | |

Air transport (ICAO)

| | |
|-----------------------------------|--|
| 14.1. UN number: | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name: | |
| 14.3. Transport hazard class(es): | |
| 14.4. Packaging group: | |

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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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 contaminating class (D): 2- obviously hazardous to water

15.2. Chemical Safety Assessment

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

SECTION 16: Other 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 |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| CAS | Chemical Abstracts Service (division of the American Chemical Society) |
| LC50 | Lethal concentration, 50 % |
| LD50 | Lethal dose, 50 % |

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|-------------------------|--------------------------|
| Classification | Classification procedure |
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 3; H411 | Calculation method |

Relevant H- and EUH-phrases (Number and full text)

| | |
|-------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| 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.

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SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Name of product: **BLUE BLOKKER**

UFI:

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

light curing resin for technical applications

1.3. Details of the supplier of the safety data sheet

Manufacturer / distributor

SCHEU-DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

E-Mail: service@scheu-group.com

Internet: www.scheu-group.com/scheu-dental

1.4. Emergency telephone number: +49 (2374) 9288-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1; H317

Aquatic Chronic 2 H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard components for labelling

urethane dimethacrylate (UDMA)

tricyclodecan dimethanol diacrylate (TCDDMDA)

Urethane acrylate

Signal word: Warning

Hazard Pictograms: GHS07- GHS09



Hazard statements

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P501 | Dispose of contents/container in accordance with local regulation. |

Special labelling of certain mixtures

Restricted to professional users.

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Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:



Hazard statements

H317

Precautionary statements

P280-P302+P352-P333+P313

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

3.1. Substances

not applicable

3.2. Mixtures

Chemical characterization

Mixture of acrylic resins, fillers and initiators.

Hazardous components

| EC No | Chemical name | Quantity |
|------------|---|----------|
| CAS No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| Index No | | |
| REACH-No | | |
| | urethane dimethacrylate (UDMA) | > 60 % |
| 72869-86-4 | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | |
| | | |
| | tricyclodecan dimethanol diacrylate (TCDDMDA) | < 25 % |
| 42594-17-2 | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | |
| | | |
| | Urethane acrylate | < 10 % |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411 | |
| | | |
| 233-634-3 | Ethyl-4-dimethylaminobenzoat | < 1 % |
| 10287-53-3 | Repr. 1B, Aquatic Chronic 2; H360 H411 | |
| | | |

Additional information

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

Specific concentration limits, M-factors and ATE

| CAS-No. | EG-No. | Chemical name | Quantity |
|------------|-----------|---|----------|
| | | Specific concentration limits, M-factors and ATEs | |
| 72869-86-4 | | urethane dimethacrylate (UDMA) | > 60 % |
| | | inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 42594-17-2 | | tricyclodecan dimethanol diacrylate (TCDDMDA) | < 25 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 10287-53-3 | 233-634-3 | Ethyl-4-dimethylaminobenzoat | < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |

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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 further relevant information available.

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 (e.g. 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

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good room ventilation. Do not breathe dust.

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.

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

General Information

| | |
|-----------------------|----------------|
| Physical state | Gel |
| Colour | blue |
| Odour | characteristic |
| pH-Value: | not determined |

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point | > 100 °C |
| Flammability | not applicable |
| Lower explosion limits | not determined |
| Upper explosion limits | not determined |

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| | |
|---------------------------------------|--|
| Self-ignition temperature | |
| Solid | not applicable |
| Gas | not applicable |
| Decomposition temperature | not determined |
| Vapour pressure | not determined |
| Density | not determined |
| Water solubility | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents | The substance is not soluble in water. |
| Partition coefficient n-octanol/water | not determined |
| Relative vapour density | not determined |
| Evaporation rate | not determined |

9.2. Other information

Solid content not determined

Further information

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

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 toxicological effects****Acute toxicity**

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

| CAS No. | Chemical name | Exposure route | Dose | Species | Source | Method |
|------------|---|---------------------------|------------------|---------|----------|--------|
| 72869-86-4 | urethane dimethacrylate (UDMA) | oral | LD50 >5000 mg/kg | Rat | OECD 401 | |
| | | dermal | LD50 >2000 mg/kg | Rat | OECD 404 | |
| | | inhalation (4h) dust/mist | LC50 > 5 mg/l | | | |
| 42594-17-2 | tricyclodecan dimethanol diacrylate (TCDDMDA) | oral | LD50 >2000 mg/kg | Rat | OECD 423 | |
| | | dermal | LD50 >2000 mg/kg | Rat | OECD 402 | |
| 10287-53-3 | Ethyl-4-dimethylaminobenzoat | oral | LD50 >5000 mg/kg | Rat | | |
| | | dermal | LD50 >2000 mg/kg | Rat | | |

Irritation and corrosivity:

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

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Sensitising effects

May cause an allergic skin reaction. (urethane dimethacrylate (UDMA); tricyclodecan dimethanol diacrylate (TCDDMDA); Urethane acrylate). 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.

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.

11.2 Information on other hazards

Further information

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

SECTION 12: Ecological Information

12.1. Toxicity

Aquatic toxicity:

| CAS No | Chemical name | Dose | [h] [d] | Species | Source | Method |
|------------|---|-------------------|---------|---------------------------------|----------|--------|
| 72869-86-4 | urethane dimethacrylate (UDMA) | | | | | |
| | Acute fish toxicity | LC50 10,1 mg/l | 96 h | Danio rerio (zebrafish) | OECD 203 | |
| | Acute algae toxicity | ErC50 > 0,68 mg/l | 72 h | Desmodesmus subspicatus | OECD 201 | |
| | Acute crustacea toxicity | EC50 > 1,2 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| 42594-17-2 | tricyclodecan dimethanol diacrylate (TCDDMDA) | | | | | |
| | Acute fish toxicity | LC50 1,65 mg/l | 96 h | Danio rerio (zebrafish) | OECD 203 | |
| | Acute algae toxicity | ErC50 1,6 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD 201 | |
| | Acute crustacea toxicity | EC50 2,36 mg/l | 48 h | Daphnia magna (Big water flea) | OECD 202 | |

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 |
| 42594-17-2 | tricyclodecan dimethanol diacrylate (TCDDMDA) | OECD 301 F | 27 % | 56 | |
| | Not readily biodegradable (according to OECD criteria) | | | | |

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 disruptive effect

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

12.7. Other adverse effects

No information available.

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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.

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 - used product

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)

| | |
|-----------------------------------|---|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Special Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | E |
| Excepted quantity: | E1 |

Other applicable information (land transport)

SV 375: These substances, when carried in single or combination packagings of a net quantity not exceeding 5 litres of liquids or a net mass not exceeding 5 kg of solids per single or combination packaging, are not subject to the other provisions of ADR, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Inland waterways transport (ADN)

| | |
|---|---|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |
| Classification code: | M6 |
| Spezial Provisions: | 274 335 375 601 |
| Limited quantity: | 5 L |
| Other applicable information (inland waterways transport) | E1 |

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Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packaging group: | III |
| Hazard label: | 9 |
| Special Provisions: | 274, 335, 969 |
| Limited quantity: | 5 L |
| EmS: | F-A, S-F |
| Excepted quantity: | E1 |
| Other applicable information (marine transport): | |

Air transport (ICAO)

| | |
|--|---|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packaging group: | III |
| Hazard label: | 9 |
| Special Provisions: | A97 A158 A197 |
| Limited quantity Passenger: | 30 kg G |
| IATA-packing instructions - Passenger: | 964 |
| IATA-max. quantity - Passenger: | 450 L |
| IATA-packing instructions - Cargo: | 964 |
| IATA-max. quantity - Cargo: | 450 L |
| Excepted quantity: | E1 |
| Passenger-LQ: | Y964 |

Other applicable information (air transport)

A 197: These substances are not subject to other provisions of these Regulations when carried in single or combination packagings with a net quantity per single or inner packaging not exceeding 5L for liquids and a net weight not exceeding 5kg for substances, provided the packagings meet the general requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: ACRYLIC RESIN

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

Additional information

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

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.

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SECTION 16: Other 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 |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| CAS | Chemical Abstracts Service (division of the American Chemical Society) |
| LC50 | Lethal concentration, 50 % |
| LD50 | Lethal dose, 50 % |

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H- and EUH-phrases (Number and full text)

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H360 | May damage fertility or the unborn child. |
| 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.