

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							
	Aquatic toxicity	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.