

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 1 of 18

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Luxatemp MaxProtect\_Base Paste

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

photochemicals, Polymerisation

**Uses advised against**

pregnant or breastfeeding people should not work with hazardous substances

**1.3. Details of the supplier of the safety data sheet**

Company name:	DMG Chemisch-Pharmazeutische Fabrik GmbH	
Street:	Elbgaustraße 248	
Place:	D-22547 Hamburg	
Telephone:	+49. (0) 40. 84006-0	Telefax: +49. (0) 40. 84006-222
E-mail:	info@dmg-dental.com	
Internet:	www.dmg-dental.com	

**Further Information**

The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Acute Tox. 4; H302  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate (1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate  
Triethylene glycol dimethacrylate  
2-hydroxyethyl methacrylate

**Signal word:** Warning**Pictograms:****Hazard statements**

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280	Wear protective gloves and eye protection/face protection.
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**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 2 of 18

P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 3 of 18

**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
41637-38-1	ethoxylated bisphenol A dimethacrylate			30 - < 35 %
	609-946-4		01-2119980659-17	
	Aquatic Chronic 4; H413			
73297-29-7	2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and a,a',a''-1,2,3-propanetriyltris[w-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]			10 - < 15 %
	676-718-9			
	Eye Irrit. 2; H319			
2143103-44-8	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate			1 - < 5 %
	944-336-4		01-2120266262-60	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			1 - < 5 %
	256-032-2	607-249-00-X	01-2119484613-34	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411			
109-16-0	Triethylene glycol dimethacrylate			1 - < 5 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
868-77-9	2-hydroxyethyl methacrylate			1 - < 5 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
818-61-1	2-hydroxyethyl acrylate			< 1 %
	212-454-9	607-072-00-8		
	Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 3; H311 H302 H314 H318 H317 H400 H412			
72829-09-5	1,12-Dodecane Dimethacrylate			< 0.1 %
	276-900-4		01-2120756306-53	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			< 0.1 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
108-88-3	toluene			< 0.1 %
	203-625-9	601-021-00-3	01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Acute Tox. 4, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H302 H315 H336 H373 H304			

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 4 of 18

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

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
41637-38-1	609-946-4	ethoxylated bisphenol A dimethacrylate	30 - < 35 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
2143103-44-8	944-336-4	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
42978-66-5	256-032-2	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg STOT SE 3; H335: >= 10 - 100	
109-16-0	203-652-6	Triethylene glycol dimethacrylate	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	1 - < 5 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 5564 mg/kg	
818-61-1	212-454-9	2-hydroxyethyl acrylate	< 1 %
		dermal: LD50 = 298 mg/kg; oral: LD50 = 540 mg/kg Skin Sens. 1; H317: >= 0,2 - 100 Aquatic Acute 1; H400: M=1	
72829-09-5	276-900-4	1,12-Dodecane Dimethacrylate	< 0.1 %
		oral: LD50 = >2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	< 0.1 %
		inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
108-88-3	203-625-9	toluene	< 0.1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 636 mg/kg	

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Call a physician immediately.

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

No 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**

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

High power water jet.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 5 of 18

**5.2. Special hazards arising from the substance or mixture**Non-flammable. CO<sub>x</sub>, NO<sub>x</sub>**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**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. Wear suitable protective clothing.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Take up mechanically.

**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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. 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**

Keep container tightly closed.

Store only in original container.

**Hints on joint storage**

No special measures are necessary.

**7.3. Specific end use(s)**

photochemicals, Polymerisation

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 6 of 18

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	
1309-37-1	Rouge, respirable dust	-	4		TWA (8 h)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-88-3	Toluene	Toluene	0.03 mg/L	Urine	End of shift

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 7 of 18

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
41637-38-1	ethoxylated bisphenol A dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	3,52 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
Worker DNEL, long-term		inhalation	systemic	2,35 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
109-16-0	Triethylene glycol dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	48,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13,9 mg/kg bw/day
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNEL, long-term		inhalation	local	10 mg/m <sup>3</sup>
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	local	208 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13,7 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,5 mg/cm <sup>2</sup>
Worker DNEL, acute		inhalation	local	416 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	348,4 mg/m <sup>3</sup>
Worker DNEL, acute		dermal	local	1,5 mg/cm <sup>2</sup>
108-88-3	toluene			
Worker DNEL, long-term		inhalation	systemic	192 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	384 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	192 mg/m <sup>3</sup>
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 8 of 18

**PNEC values**

CAS No	Substance	Value
Environmental compartment		Value
2143103-44-8	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate	
Freshwater		0,016 mg/l
Marine water		0,002 mg/l
Freshwater sediment		2,992 mg/kg
Marine sediment		0,299 mg/kg
Micro-organisms in sewage treatment plants (STP)		10,18 mg/l
Soil		0,589 mg/kg
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
Freshwater		0,005 mg/l
Marine water		0 mg/l
Freshwater sediment		0,487 mg/kg
Marine sediment		0,049 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,095 mg/kg
109-16-0	Triethylene glycol dimethacrylate	
Freshwater		0,016 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,002 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,7 mg/l
Soil		0,027 mg/kg
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0,482 mg/l
Freshwater sediment		3,79 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,476 mg/kg
818-61-1	2-hydroxyethyl acrylate	
Freshwater		0,017 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,064 mg/kg
Marine sediment		0,006 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
13463-67-7	titanium dioxide	
Freshwater		0,127 mg/l
Freshwater (intermittent releases)		0,61 mg/l
Marine water		1 mg/l
Freshwater sediment		1000 mg/kg
Marine sediment		100 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		100 mg/kg



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 9 of 18

80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
Freshwater		0,94 mg/l
Marine water		0,094 mg/l
Freshwater sediment		10,2 mg/kg
Marine sediment		10,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,48 mg/kg
108-88-3	toluene	
Freshwater		0,68 mg/l
Marine water		0,68 mg/l
Freshwater sediment		16,39 mg/kg
Marine sediment		16,39 mg/kg
Micro-organisms in sewage treatment plants (STP)		13,61 mg/l
Soil		2,89 mg/kg
128-37-0	2,6-Di-tert-butyl-4-methylphenol	
Freshwater		0,000199 mg/l
Freshwater (intermittent releases)		0,00199 mg/l
Marine water		0,000199 mg/l
Freshwater sediment		0,0996 mg/kg
Marine sediment		0,00996 mg/kg
Soil		0,04769 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation of the storage area.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber).

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 10 of 18

Physical state: Paste  
 Colour: colourless  
 Odour: characteristic

**Test method**

Melting point/freezing point: not determined  
 Boiling point or initial boiling point and boiling range: not determined  
 Flammability: not determined  
 Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Flash point: > 93 °C  
 Auto-ignition temperature: not determined  
 Decomposition temperature: not determined  
 pH-Value: not determined  
 Water solubility: not determined  
 (at 20 °C)  
 Solubility in other solvents: not determined  
 Partition coefficient n-octanol/water: not determined  
 Vapour pressure: not determined  
 Density: not determined  
 Relative vapour density: > 1

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

**Other safety characteristics**

Evaporation rate: not determined  
 Solid content: not determined  
 Sublimation point: not determined  
 Softening point: not determined  
 Pour point: not determined  
 point of decomposition: not determined estim.

**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**

No known hazardous reactions.

**10.4. Conditions to avoid**

Light. heat.

Decomposition takes place from temperatures above: 200 °C

Decomposition under formation of: Acrylate.

**10.5. Incompatible materials**

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 11 of 18

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gas / vapours, irritant. (Acrylate., pungent)

**Further information**

Substances sensitive to light.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if swallowed. (On basis of test data)

**ATEmix tested**

	Dose	Species	Source
LD50, oral	1931 mg/kg	Rat	ATEmix (calc.)

**ATEmix calculated**

ATE (dermal) 218335 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 12 of 18

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
41637-38-1	ethoxylated bisphenol A dimethacrylate				
	oral	LD50 >2000 mg/kg	Rat	ECHA	OECD 423
	dermal	LD50 >2000 mg/kg	Rat	ECHA	OECD 402
2143103-44-8	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	OECD 401
	dermal	LD50 >2000 mg/kg	Rat	ECHA	
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate				
	oral	LD50 >2000 mg/kg	Rat	supplier SDS/ ECHA	OECD 423
	dermal	LD50 >2000 mg/kg	Rabbit	supplier SDS/ ECHA	OECD 402
109-16-0	Triethylene glycol dimethacrylate				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	
	dermal	LD50 >2000 mg/kg	Mouse	supplier SDS	
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat	supplier SDS	
	dermal	LD50 >5000 mg/kg	Rabbit	supplier SDS	
818-61-1	2-hydroxyethyl acrylate				
	oral	LD50 540 mg/kg	Rat	ECHA	
	dermal	LD50 298 mg/kg	Rabbit	GESTIS	
72829-09-5	1,12-Dodecane Dimethacrylate				
	oral	LD50 >2000 mg/kg	Rat	supplier SDS/ ECHA	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	
	dermal	LD50 >5000 mg/kg	Rabbit	supplier SDS	
	inhalation (4 h) vapour	LC50 29,8 mg/l	Rat	supplier SDS	
108-88-3	toluene				
	oral	LD50 636 mg/kg	Rat	supplier SDS	
	dermal	LD50 >5000 mg/kg	Rabbit	ECHA	

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 13 of 18

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate; (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate; Triethylene glycol dimethacrylate; 2-hydroxyethyl methacrylate; 2-hydroxyethyl acrylate; 1,12-Dodecane Dimethacrylate; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Luxatemp MaxProtect\_Base Paste

Revision date: 06.08.2024

Product code: G000025

Page 14 of 18

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
41637-38-1	ethoxylated bisphenol A dimethacrylate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio (zebrafish)	supplier SDS	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Pseudokirchneriella subcapitata	supplier SDS	
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	
2143103-44-8	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate					
	Acute fish toxicity	LC50 18 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	supplier SDS	OECD 203
	Acute algae toxicity	ErC50 >25,4 mg/l		Pseudokirchneriella subcapitata	supplier SDS	OECD 201
	Acute crustacea toxicity	EC50 15,9 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	OECD 202
42978-66-5	(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate					
	Acute fish toxicity	LC50 >4,6 mg/l	96 h	Leuciscus idus (golden orfe)	supplier SDS	
	Acute algae toxicity	ErC50 65,9 mg/l	72 h	Pseudokirchneriella subcapitata	supplier SDS	
	Acute crustacea toxicity	EC50 89 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	
	Acute bacteria toxicity	EC50 >1000 mg/l ( )	0,5 h	Activated sludge	supplier SDS	
109-16-0	Triethylene glycol dimethacrylate					
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC 32 mg/l	21 d	Daphnia magna (Big water flea)		
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oryzias latipes (Ricefish)	supplier SDS	
	Acute algae toxicity	ErC50 836 mg/l	72 h	Selenastrum capricornutum	supplier SDS	
	Acute crustacea toxicity	EC50 380 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS	OECD 202
72829-09-5	1,12-Dodecane Dimethacrylate					
	Acute algae toxicity	ErC50 0,017 mg/l	72 h	Pseudokirchneriella subcapitata	supplier SDS/ ECHA	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS/ ECHA	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50 >100 mg/l	96 h		supplier SDS	OECD 203
	Acute algae toxicity	ErC50 110 mg/l	72 h	Selenastrum capricornutum	ECHA	
	Fish toxicity	NOEC 9,4 mg/l			supplier SDS	OECD 210
	Algae toxicity	NOEC >110 mg/l		Selenastrum capricornutum	supplier SDS	OECD 201

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 15 of 18

	Crustacea toxicity	NOEC	37 mg/l		Daphnia magna (Big water flea)	supplier SDS	OECD 202
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**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
41637-38-1	ethoxylated bisphenol A dimethacrylate			
	OECD 301D	24%	28	
	Not readily biodegradable (according to OECD criteria)			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
	OECD 301B	48%	28	
	Not readily biodegradable (according to OECD criteria)			
109-16-0	Triethylene glycol dimethacrylate			
	OECD 301B	85%		
	Readily biodegradable (according to OECD criteria).			
868-77-9	2-hydroxyethyl methacrylate			
	OECD 301D	84	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
818-61-1	2-hydroxyethyl acrylate			
	OECD 301B	79%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
72829-09-5	1,12-Dodecane Dimethacrylate			
	OECD 301B	97,3%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
	OECD 301C	94%	14	
	Readily biodegradable (according to OECD criteria).			

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
41637-38-1	ethoxylated bisphenol A dimethacrylate	5,62
2143103-44-8	Reaction product of 2,2'-oxydiethanol and 2-hydroxyethyl acrylate and 2-hydroxyethyl methacrylate and hexan-6-olide and trimethylhexa-1,6-diyl diisocyanate	3,35-3,76
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2,5
109-16-0	Triethylene glycol dimethacrylate	2,3
868-77-9	2-hydroxyethyl methacrylate	0,42
818-61-1	2-hydroxyethyl acrylate	-0,17
72829-09-5	1,12-Dodecane Dimethacrylate	6,5
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,38
108-88-3	toluene	2,73

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 16 of 18

**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 to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of hazardous waste according to official regulations.

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

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**Other applicable information**

No dangerous good in sense of these transport regulations.

**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 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 17 of 18

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and acronyms**

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Carc: Carcinogenicity

Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Luxatemp MaxProtect\_Base Paste**

Revision date: 06.08.2024

Product code: G000025

Page 18 of 18

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

Classification	Classification procedure
Acute Tox. 4; H302	On basis of test data
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. -

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