

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 1 of 17

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

LuxaCore Z Dual_Catalyst Paste

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

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

Skin Irrit. 2; H315
 Eye Dam. 1; H318
 Skin Sens. 1; H317
 Aquatic Acute 1; H400
 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

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

7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)
 1,12-Dodecane Dimethacrylate
 Methacryloyloxyethyl Maleate
 benzoyl peroxide

Signal word: Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves and eye protection/face protection.
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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 2 of 17

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P310

Immediately call a POISON CENTER/doctor.

P501

Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

60 - < 65 per cent of the mixture consists of component(s) of unknown acute toxicity (dermal).

60 - < 65 per cent of the mixture consists of component(s) of unknown acute toxicity (inhalation).

Contains 5 - < 10 % of components with unknown hazards to the aquatic environment.

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

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 3 of 17

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)			5 - < 10 %
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
72829-09-5	1,12-Dodecane Dimethacrylate			5 - < 10 %
	276-900-4		01-2120756306-53	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410			
6606-59-3	1,6-hexanediol dimethacrylate			5 - < 10 %
	229-551-7		01-2120760621-59	
	Aquatic Chronic 3; H412			
51978-15-5	Methacryloyloxyethyl Maleate			1 - < 5 %
	257-569-5			
	Skin Corr. 1B, Skin Sens. 1; H314 H317			
94-36-0	benzoyl peroxide			< 1 %
	202-327-6	617-008-00-0		
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			
7681-49-4	sodium fluoride			< 1 %
	231-667-8	009-004-00-7	01-2119539420-47	
	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2; H301 H315 H319 EUH032			
79-41-4	methacrylic acid; 2-methylpropenoic acid			< 1 %
	201-204-4	607-088-00-5		
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335			
868-77-9	2-hydroxyethyl methacrylate			< 1 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
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			

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 4 of 17

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
72869-86-4	276-957-5	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	5 - < 10 %
		oral: LD50 = >5000 mg/kg	
72829-09-5	276-900-4	1,12-Dodecane Dimethacrylate	5 - < 10 %
		oral: LD50 = >2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
94-36-0	202-327-6	benzoyl peroxide	< 1 %
		oral: LD50 = >2000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
7681-49-4	231-667-8	sodium fluoride	< 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 148,5 mg/kg	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 500-1000 mg/kg; oral: LD50 = 1320 mg/kg STOT SE 3; H335: >= 1 - 100	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	< 1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 5564 mg/kg	
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	

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

Provide fresh air. 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. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

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 (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 5 of 17

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.

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.

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.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. 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.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Substances sensitive to light.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 6 of 17

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
128-37-0	2,6-Ditertiary-butyl-para-cresol	-	2		TWA (8 h)	
94-36-0	Benzoyl peroxid (Dibenzoyl peroxide)	-	5		TWA (8 h)	
79-41-4	Methacrylic acid	20	70		TWA (8 h)	
		40	140		STEL (15 min)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)			
Worker DNEL, long-term		inhalation	systemic	3,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
6606-59-3	1,6-hexanediol dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	14,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
79-41-4	methacrylic acid; 2-methylpropenoic acid			
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	29,6 mg/m ³
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
128-37-0	2,6-Di-tert-butyl-4-methylphenol			
Worker DNEL, long-term		inhalation	systemic	3,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	local	208 mg/m ³
Worker DNEL, long-term		dermal	systemic	13,7 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,5 mg/cm ²
Worker DNEL, acute		inhalation	local	416 mg/m ³
Worker DNEL, long-term		inhalation	systemic	348,4 mg/m ³
Worker DNEL, acute		dermal	local	1,5 mg/cm ²

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 7 of 17

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	
Freshwater		0,01 mg/l
Marine water		0,001 mg/l
Freshwater sediment		4,56 mg/kg
Marine sediment		0,456 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,61 mg/l
Soil		0,91 mg/kg
6606-59-3	1,6-hexanediol dimethacrylate	
Freshwater		0,00488 mg/l
Marine water		0,000488 mg/l
Freshwater sediment		0,262 mg/kg
Marine sediment		0,026 mg/kg
Micro-organisms in sewage treatment plants (STP)		800 mg/l
Soil		0,05 mg/kg
79-41-4	methacrylic acid; 2-methylpropenoic acid	
Freshwater		0,82 mg/l
Freshwater (intermittent releases)		0,82 mg/l
Marine water		0,82 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,2 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
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
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 8 of 17

8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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.

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**

Physical state:	Paste	
Colour:	off-white	
Odour:	characteristic	
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:		not applicable
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		virtually insoluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		not determined
Relative vapour density:		not determined

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 9 of 17

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

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

none

10.5. Incompatible materials

No information available.

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.

ATEmix calculated

ATE (oral) 32213 mg/kg; ATE (dermal) 46432 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 10 of 17

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)				
	oral	LD50 >5000 mg/kg	Rat	supplier SDS	OECD 401
72829-09-5	1,12-Dodecane Dimethacrylate				
	oral	LD50 >2000 mg/kg	Rat	supplier SDS/ ECHA	
94-36-0	benzoyl peroxide				
	oral	LD50 >2000 mg/kg	Mouse	ECHA	OECD 401
7681-49-4	sodium fluoride				
	oral	LD50 148,5 mg/kg	Rat	supplier SDS	
	dermal	LD50 >2000 mg/kg	Rat	ECHA	
79-41-4	methacrylic acid; 2-methylpropenoic acid				
	oral	LD50 1320 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 500-1000 mg/kg	Rat	ECHA	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat	supplier SDS	
	dermal	LD50 >5000 mg/kg	Rabbit	supplier SDS	
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	

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

Sensitising effects

May cause an allergic skin reaction. (7,7,9-(resp.

7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxo-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers);

1,12-Dodecane Dimethacrylate; Methacryloyloxyethyl Maleate; benzoyl peroxide; 2-hydroxyethyl methacrylate; 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 11 of 17

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**

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 12 of 17

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
72829-09-5	1,12-Dodecane Dimethacrylate					
	Acute algae toxicity	ErC50 mg/l	0,017	72 h	Pseudokirchneriella subcapitata	supplier SDS/ ECHA
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)	supplier SDS/ ECHA
94-36-0	benzoyl peroxide					
	Acute fish toxicity	LC50 mg/l	0,06	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA
	Acute algae toxicity	ErC50 mg/l	0,071		Pseudokirchneriella subcapitata	ECHA OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,11	48 h	Daphnia magna (Big water flea)	ECHA
7681-49-4	sodium fluoride					
	Acute fish toxicity	LC50	925 mg/l	96 h	Gambusia affinis (Mosquito fish)	supplier SDS
	Acute algae toxicity	ErC50	850 mg/l	72 h	Desmodesmus subspicatus	supplier SDS
	Acute crustacea toxicity	EC50	338 mg/l	48 h	Daphnia magna (Big water flea)	supplier SDS
	Acute bacteria toxicity	EC50 mg/l ()	2930	3 h	Activated sludge	supplier SDS
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	Acute fish toxicity	LC50	85 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA
	Acute algae toxicity	ErC50	45 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA
	Fish toxicity	NOEC	10 mg/l	35 d	Danio rerio (zebrafish)	ECHA
	Algae toxicity	NOEC	8,2 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA
	Crustacea toxicity	NOEC	53 mg/l	21 d	Daphnia magna (Big water flea)	ECHA
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 mg/l	>100	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
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50 mg/l	>100	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 mg/l	>110		Selenastrum capricornutum	supplier SDS OECD 201
	Crustacea toxicity	NOEC	37 mg/l		Daphnia magna (Big water flea)	supplier SDS OECD 202

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 13 of 17

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	OECD 301F	22%	28	
	Not readily biodegradable (according to OECD criteria)				
72829-09-5	1,12-Dodecane Dimethacrylate	OECD 301B	97,3%	28	
	Easily biodegradable (concerning to the criteria of the OECD)				
6606-59-3	1,6-hexanediol dimethacrylate	OECD 301F	91,1%	28	
	Easily biodegradable (concerning to the criteria of the OECD)				
79-41-4	methacrylic acid; 2-methylpropenoic acid	OECD 301D	86 %	28	
	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)				
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
72869-86-4	7,7,9-(resp. 7,9,9-)Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecane-1,16-diol dimethacrylate (mixture of isomers)	3,39
72829-09-5	1,12-Dodecane Dimethacrylate	6,5
6606-59-3	1,6-hexanediol dimethacrylate	4,08
94-36-0	benzoyl peroxide	3,46
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
868-77-9	2-hydroxyethyl methacrylate	0,42
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,38

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 14 of 17

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.


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:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
	
Special Provisions:	274 335 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es):	9
14.4. Packing group:	III

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 15 of 17

Hazard label:

9



Special Provisions:

A97 A158 A197 A215

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes

**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 75

Information according to Directive
2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

National regulatory information

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 16 of 17

Abbreviations and acronyms

Org. Perox

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single 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).

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Catalyst Paste

Revision date:

Product code: G000034

Page 17 of 17

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
EUH032	Contact with acids liberates very toxic gas.

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.)