

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 1 of 16

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

LuxaCore Z Dual_Base 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**

Eye Irrit. 2; H319
 Skin Sens. 1; H317
 Repr. 1B; H360
 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

2,2'-[(4-methylphenyl)imino]bisethanol

2-Ethylhexyl 4-(dimethylamino)benzoate

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

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H360 | May damage fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves and eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 2 of 16

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

Contains 10 - < 15 % of components with unknown hazards to the aquatic environment.
Restricted to professional users.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****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) | | | 10 - < 15 % |
| | 276-957-5 | | 01-2120751202-68 | |
| | Skin Sens. 1B, Aquatic Chronic 2; H317 H411 | | | |
| 6606-59-3 | 1,6-hexanediol dimethacrylate | | | 5 - < 10 % |
| | 229-551-7 | | 01-2120760621-59 | |
| | Aquatic Chronic 3; H412 | | | |
| 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 | | | |
| 3077-12-1 | 2,2'-[[4-methylphenyl]imino]bisethanol | | | 1 - < 5 % |
| | 221-359-1 | | 01-2120791684-40 | |
| | Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H318 H317 H412 | | | |
| 21245-02-3 | 2-Ethylhexyl 4-(dimethylamino)benzoate | | | < 1 % |
| | 244-289-3 | | 01-2120766649-35 | |
| | Repr. 1B; H360 | | | |
| 2867-47-2 | 2-dimethylaminoethyl methacrylate | | | < 1 % |
| | 220-688-8 | 607-132-00-3 | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1C, Eye Irrit. 2, Skin Sens. 1; H312 H302 H314 H319 H317 | | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | < 1 % |
| | 278-355-8 | 015-203-00-X | 01-2119972295-29 | |
| | Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411 | | | |
| 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_Base Paste

Revision date:

Product code: G000036

Page 3 of 16

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|---|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 72869-86-4 | 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) | 10 - < 15 % |
| | | 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 | |
| 3077-12-1 | 221-359-1 | 2,2'-[[4-methylphenyl]imino]bisethanol | 1 - < 5 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = 959 mg/kg | |
| 21245-02-3 | 244-289-3 | 2-Ethylhexyl 4-(dimethylamino)benzoate | < 1 % |
| | | oral: LD50 = 14900 mg/kg | |
| 2867-47-2 | 220-688-8 | 2-dimethylaminoethyl methacrylate | < 1 % |
| | | dermal: ATE = 1100 mg/kg; oral: LD50 = 1751 mg/kg | |
| 75980-60-8 | 278-355-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

IF SWALLOWED: rinse mouth. 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**

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 4 of 16

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. 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, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 5 of 16

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) | |
| 150-76-5 | 4-Methoxyphenol | - | 5 | | 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) | |

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 |
| 3077-12-1 | 2,2'-(4-methylphenyl)imino]bisethanol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 3,29 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,47 mg/kg bw/day |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | |
| Worker DNEL, long-term | | inhalation | systemic | 3,5 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 1 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 |
| 13463-67-7 | titanium dioxide | | | |
| Worker DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| 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 |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 6 of 16

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-dioxa-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 |
| 3077-12-1 | 2,2'-[(4-methylphenyl)imino]bisethanol | |
| Freshwater | | 0,026 mg/l |
| Freshwater (intermittent releases) | | 0,26 mg/l |
| Marine water | | 0,003 mg/l |
| Marine water (intermittent releases) | | 0,026 mg/l |
| Freshwater sediment | | 0,121 mg/kg |
| Marine sediment | | 0,012 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,009 mg/kg |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,035 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,29 mg/l |
| Marine sediment | | 0,029 mg/l |
| Soil | | 0,056 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 |
| 13463-67-7 | titanium dioxide | |
| Freshwater | | 0,127 mg/l |
| Freshwater (intermittent releases) | | 0,61 mg/l |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 7 of 16

| | |
|--|----------------------------------|
| 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 |
| 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**

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: | various | |
| 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 |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 8 of 16

| | |
|--|---------------------|
| 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.

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) 70940 mg/kg; ATE (dermal) > 2000 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_Base Paste

Revision date:

Product code: G000036

Page 9 of 16

| 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-dioxa-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 | |
| 3077-12-1 | 2,2'-[(4-methylphenyl)imino]bisethanol | | | | |
| | oral | LD50 959 mg/kg | Rat | supplier SDS | OECD 401 |
| | dermal | LD50 >2000 mg/kg | Rat | supplier SDS | OECD 402 |
| 21245-02-3 | 2-Ethylhexyl 4-(dimethylamino)benzoate | | | | |
| | oral | LD50 14900 mg/kg | Rat | ECHA | OECD 401 |
| 2867-47-2 | 2-dimethylaminoethyl methacrylate | | | | |
| | oral | LD50 1751 mg/kg | Rat | supplier SDS | |
| | dermal | ATE 1100 mg/kg | | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | supplier SDS | |
| | dermal | LD50 > 2000 mg/kg | Rat | 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

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. (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);

1,12-Dodecane Dimethacrylate; 2,2'-[(4-methylphenyl)imino]bisethanol

; 2-dimethylaminoethyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; methyl methacrylate;

methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; hydroquinone monomethyl ether)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child. (2-Ethylhexyl 4-(dimethylamino)benzoate)

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

Carcinogenicity: 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_Base Paste

Revision date:

Product code: G000036

Page 10 of 16

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]. Special hazards arising from the substance or mixture!

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_Base Paste

Revision date:

Product code: G000036

Page 11 of 16

| 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 |
| 3077-12-1 | 2,2'-[(4-methylphenyl)imino]bisethanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | >100 | 96 h | Cyprinus carpio (Common Carp) | supplier SDS OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | >100 | 72 h | Pseudokirchneriella subcapitata | supplier SDS OECD 201 |
| | Acute bacteria toxicity | EC50 mg/l () | >1000 | 3 h | | ECHA OECD 209 |
| 2867-47-2 | 2-dimethylaminoethyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 19,1 | 96 h | Oryzias latipes (Ricefish) | supplier SDS OECD 203 |
| | Acute algae toxicity | ErC50 mg/l | 69,7 | 72 h | Selenastrum capricornutum | supplier SDS OECD 201 |
| | Acute crustacea toxicity | EC50 mg/l | 33 mg/l | 48 h | Daphnia magna (Big water flea) | supplier SDS OECD 202 |
| | Crustacea toxicity | NOEC mg/l | 4,35 | 21 d | Daphnia magna (Big water flea) | ECHA OECD 211 |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | | |
| | Acute fish toxicity | LC50 mg/l | 6,53 | 96 h | Oryzias latipes (Ricefish) | supplier SDS |
| | Acute algae toxicity | ErC50 mg/l | > 2,01 | 72 h | Scenedesmus subspicatus | supplier SDS |
| | Acute crustacea toxicity | EC50 mg/l | 3,53 | 48 h | Daphnia magna (Big water flea) | supplier SDS |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | Activated sludge | supplier SDS |
| 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 mg/l | 110 mg/l | 72 h | Selenastrum capricornutum | ECHA |
| | Fish toxicity | NOEC mg/l | 9,4 mg/l | | | supplier SDS OECD 210 |
| | Algae toxicity | NOEC mg/l | >110 | | Selenastrum capricornutum | supplier SDS OECD 201 |
| | Crustacea toxicity | NOEC mg/l | 37 mg/l | | Daphnia magna (Big water flea) | supplier SDS OECD 202 |

12.2. Persistence and degradability

The product has not been tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 12 of 16

| 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) | | | |
| 6606-59-3 | 1,6-hexanediol dimethacrylate | | | |
| | OECD 301F | 91,1% | 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) | | | |
| 3077-12-1 | 2,2'-[(4-methylphenyl)imino]bisethanol | | | |
| | OECD 301B | 1,5% | 28 | |
| | Not readily biodegradable (according to OECD criteria) | | | |
| 2867-47-2 | 2-dimethylaminoethyl methacrylate | | | |
| | OECD 301E | 95,3% | 28 | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | |
| | OECD 301 F | 0-10% | 28 | |
| | Not readily biodegradable (according to OECD criteria) | | | |
| 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 |
| 6606-59-3 | 1,6-hexanediol dimethacrylate | 4,08 |
| 72829-09-5 | 1,12-Dodecane Dimethacrylate | 6,5 |
| 3077-12-1 | 2,2'-[(4-methylphenyl)imino]bisethanol | 2 |
| 21245-02-3 | 2-Ethylhexyl 4-(dimethylamino)benzoate | 6,2 |
| 2867-47-2 | 2-dimethylaminoethyl methacrylate | 1,13 |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 3,1 |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 1,38 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|-------|---------|--------|
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 18-72 | | |

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

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 13 of 16

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.

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

Hazardous waste according to Directive 2008/98/EC (waste framework directive). 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 14 of 16

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
 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**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 15 of 16

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

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

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 |
|-------------------------|--------------------------|
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| Repr. 1B; H360 | Calculation method |
| Aquatic Acute 1; H400 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaCore Z Dual_Base Paste

Revision date:

Product code: G000036

Page 16 of 16

| | |
|-------|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful 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. |
| H360 | May damage fertility or the unborn child. |
| H361f | Suspected of damaging fertility. |
| 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. |

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.)