

Kerr™**Safety Data Sheet
MAXCEM ELITE (Base & Catalyst)****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name : MAXCEM ELITE (Base & Catalyst)

1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses**Main use category : Professional use
Function or use category : Dental materials.**Uses advised against**

No additional information available

1.3. Details of the supplier of the safety data sheet**Supplier**Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
E-mail: safety@kerrhawe.com**Manufacturer**Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
E-mail: safety@kerrhawe.comContact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)**1.4. Emergency telephone number**

Emergency number : CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

| Country | Organisation/Company | Address | Emergency number |
|----------------|---|---|-------------------------------------|
| United Kingdom | National Poisons Information Service (Newcastle Unit) | Claremont Place Newcastle-upon-Tyne, Newcastle | +44 191 2606182/+44 191 2606180 24H |

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

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

Skin Sens. 1 H317

Full text of classification categories and H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: 2-hydroxyethyl methacrylate, mequinol, 4-methoxyphenol, hydroquinone monomethyl ether

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction

Precautionary statements (CLP)

: P261 - Avoid breathing spray, vapours, gas, fume, mist
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to ...

Extra phrases

: The product is seen as a medical device and therefore not subject to labelling (EU-regulation 1907/2006, article 2, paragraph 6c).

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---|---|
| 2-hydroxyethyl methacrylate | (CAS No) 868-77-9 (EC no) 212-782-2 (EC index no) 607-124-00-X (REACH-no) 01-2119490169-29 | =>2-<5 | Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 |
| mequinol, 4-methoxyphenol, hydroquinone monomethyl ether | (CAS No) 150-76-5 (EC no) 205-769-8 (EC index no) 604-044-00-7 (REACH-no) 01-2119541813-40 | < 1 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| α,α-dimethylbenzyl hydroperoxide, cumene hydroperoxide | (CAS No) 80-15-9 (EC no) 201-254-7 (EC index no) 617-002-00-8 (REACH-no) 01-2119475796-19 | < 1 | Org. Perox. E, H242 Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 |
| methacrylate ester monomer | | | Not classified |
| titanium dioxide | (CAS No) 13463-67-7 (EC no) 236-675-5 (REACH-no) 01-2119489379-17 | | Not classified |
| pigment | (REACH-no) N/A | | Not classified |
| Specific concentration limits: | | | |
| Name | Product identifier | Specific concentration limits | |
| α,α-dimethylbenzyl hydroperoxide, cumene hydroperoxide | (CAS No) 80-15-9 (EC no) 201-254-7 (EC index no) 617-002-00-8 (REACH-no) 01-2119475796-19 | (1 =< C < 3) Eye Irrit. 2, H319 (C >= 1) STOT SE 3, H335 (3 =< C < 10) Skin Irrit. 2, H315 (3 =< C < 10) Eye Dam. 1, H318 (C >= 10) Skin Corr. 1B, H314 | |

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

- : If medical advice is needed, have product container or label at hand.
- : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
- : If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after skin contact

: May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

No specific measures identified.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non flammable. Hazardous polymerization may occur if exposed to high temperature.
- Explosion hazard : Product is not explosive.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

- General measures : Avoid contact with skin and eyes. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

For non-emergency personnel

- Protective equipment : See Heading 8.
- Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large spills: scoop solid spill into closing containers. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

- Precautions for safe handling : Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Store in original container. Keep cool. Store in a dry place.
- Incompatible materials : Oxidizing substances. Reducing materials. Organic peroxides. Amines.
- Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

No additional information available

8.2. Exposure controls

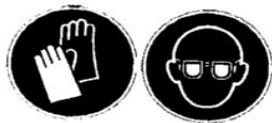
- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Gloves. Safety glasses.

Hand protection

Eye protection

Skin and body protection

Respiratory protection



- : Wear suitable gloves. Nitrile rubber gloves. Layer thickness : 0,09mm. Breakthrough time : >480 min. STANDARD EN 374.
- : Safety glasses. STANDARD EN 166.
- : Wear suitable protective clothing
- : Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. Standard EN 141.

Other information

- : Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state | : Liquid |
| Appearance | : Paste. |
| Colour | : Various. |
| Odour | : mint. slight. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 2.5 g/cm ³ |
| Solubility | : Material insoluble in water. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : Non flammable. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. No polymerization.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent, reducing materials, Organic peroxides, Amines.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Acute toxicity

: Not classified

2-hydroxyethyl methacrylate (868-77-9)

| | |
|--------------------|--------------|
| LD50 oral rat | 5050 mg/kg |
| LD50 dermal rabbit | > 3000 mg/kg |

titanium dioxide (13463-67-7)

| | |
|---------------|----------------|
| LD50 oral rat | > 100000 mg/kg |
|---------------|----------------|

 α,α -dimethylbenzyl hydroperoxide, cumene hydroperoxide (80-15-9)

| | |
|----------------------------|-------------|
| LD50 oral rat | 382 mg/kg |
| LD50 dermal rabbit | 500 mg/kg |
| LD50 dermal | 500 mg/kg |
| LC50 inhalation rat (mg/l) | 1.4 mg/l/4h |

Skin corrosion/irritation

: Not classified

Contact during a long period may cause slight irritation

Serious eye damage/irritation

: Not classified

Liquid splashes in the eye may cause irritation

Respiratory or skin sensitisation

: May cause an allergic skin reaction.

Germ cell mutagenicity

: Not classified

Carcinogenicity

: Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single exposure)

: Not classified

By prolonged exposure : May cause minor irritation to the respiratory tract and to other mucous membranes

Specific target organ toxicity (repeated exposure)

: Not classified

Aspiration hazard

: Not classified

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2-hydroxyethyl methacrylate (868-77-9)

| | |
|-------------|---|
| LC50 fish 1 | 227 mg/l (96 hours - Pimephales promelas) |
|-------------|---|

titanium dioxide (13463-67-7)

| | |
|----------------|--|
| LC50 fish 1 | > 1000 mg/l (96 hours - Fundulus heteroclitus) |
| EC50 Daphnia 1 | > 1000 mg/l (48 hours - Daphnia magna) |

 α,α -dimethylbenzyl hydroperoxide, cumene hydroperoxide (80-15-9)

| | |
|-------------|-------------------------------------|
| LC50 fish 1 | 3.9 mg/l (96 hours - Rainbow trout) |
|-------------|-------------------------------------|

12.2. Persistence and degradability**MAXCEM ELITE (Base & Catalyst)**

| | |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

2-hydroxyethyl methacrylate (868-77-9)

| | |
|----------------|-------------------------|
| Biodegradation | 84 % (OECD 301D method) |
|----------------|-------------------------|

 α,α -dimethylbenzyl hydroperoxide, cumene hydroperoxide (80-15-9)

| | |
|----------------|-----------------------------------|
| Biodegradation | 18 % (28 days, method: OECD 301C) |
|----------------|-----------------------------------|

12.3. Bioaccumulative potential**MAXCEM ELITE (Base & Catalyst)**

| | |
|---------------------------|----------|
| Bioaccumulative potential | No data. |
|---------------------------|----------|

2-hydroxyethyl methacrylate (868-77-9)

| | |
|-------------------------------------|-----------|
| Bioconcentration factor (BCF REACH) | 1,3 - 1,5 |
| Log Pow | 0.47 |

 α,α -dimethylbenzyl hydroperoxide, cumene hydroperoxide (80-15-9)

| | |
|------------|------|
| BCF fish 1 | 2.8 |
| Log Pow | 0.16 |

12.4. Mobility in soil**MAXCEM ELITE (Base & Catalyst)**

Ecology - soil

Material insoluble in water.

12.5. Results of PBT and vPvB assessment**MAXCEM ELITE (Base & Catalyst)**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects

: None to our knowledge.

Additional information

: No other effects known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Regional legislation (waste)

: Dispose as hazardous waste.

Waste treatment methods

: Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

European List of Waste (LoW) code

: 18 01 06* - chemicals consisting of or containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name**14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

Dangerous for the environment

: No

Other information

: No supplementary information available

14.6. Special precautions for user**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

| | | | |
|-----|--|----------|--|
| 1.3 | SDS EU addresses | Modified | |
| 2.1 | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Removed | |

3.2

Classification according
to Directive
67/548/EEC [DSD] or
1999/45/EC [DPD]

Removed

Data sources

: EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC.
Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.
: 31/03/2009
: 07/10/2015
: 29/08/2014
: 4.0
: A. Asebo Murel

Date of issue

Revision date

Supersedes

Version

Signature

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Org. Perox. E | Organic Peroxides, Type E |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H242 | Heating may cause a fire |
| 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 |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.