



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@kavokerr.com](mailto:safety@kavokerr.com)

Manufacturer

Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
[E-mail: safety@kavokerr.com](mailto:safety@kavokerr.com)

Contact person: safety@kavokerr.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

Hazard statements (CLP) : H317 May cause an allergic skin reaction

Precautionary statements (CLP) :

- P261 Avoid breathing dust and vapors.
- 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 water.
- P333+P313 If skin irritation or rash occurs: Get medical attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents and container in accordance with local and national regulations.

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 Repr. 2, H361 Aquatic Chronic 3, H412
Cumene hydroperoxide, α,α -dimethylbenzyl 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 Skin Corr. 1B, H314 STOT RE 2, H373 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
Cumene hydroperoxide, α,α -dimethylbenzyl 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 < 10) 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 : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

First-aid measures after skin contact : Remove contaminated clothing and shoes. Flush skin thoroughly with water for several minutes. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation occurs and persists.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms/injuries after skin contact : Direct 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 : Nonflammable.
 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

Chemical	Exposure Limit
2-Hydroxyethyl methacrylate	None Established
Mequinol	5 mg/m ³ TWA Belgium OEL 5 mg/m ³ TWA UK WEL
Cumene hydroperoxide	None Established
Methacrylate ester monomer	None Established
Titanium dioxide	9 mg/m ³ TWA Belgium OEL 10 mg/m ³ (inhalable), 4 mg/m ³ (respirable) TWA UK WEL
Pigment	None Established

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 and safety glasses are recommended.

Hand protection	: Wear suitable gloves. Nitrile rubber gloves. Layer thickness: 0,09mm. Breakthrough time: >480 min. STANDARD EN 374.
Eye protection	: Safety glasses. STANDARD EN 166.
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: 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.
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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	: Nonflammable.
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. Hazardous polymerization may occur if exposed to high temperature.

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

Thermal decomposition may produce carbon dioxide and carbon monoxide.

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

Mequinol (150-76-5)

LD50 oral rat	1630 mg/kg
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Titanium dioxide (13463-67-7)

LD50 oral rat	> 100000 mg/kg
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Cumene hydroperoxide (80-15-9)

LD50 oral rat	382 mg/kg
LD50 dermal rabbit	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 : Notclassified

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)
Mequinol (150-76-5)	
LC50 fish 1	28.5 mg/L (96 hours-Rainbow trout)
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)
Cumene hydroperoxide (80-15-9)	
LC50 fish 1	3.9 mg/l (96 hoursr - 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 and 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.

2.2, 3.2, 4.1, 4.2, 8.1, 11.1	Updated SDS		
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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.
Date of issue	: 31/03/2009
Revision date	: 14/2/2019
Supersedes	: 07/10/2015
Version	: 5.0
Signature	: A. Åsebø Murel

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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Eye irritation, Category 2
Org. Perox. E	Organic Peroxides, Type E
Repr. 2	Toxic to Reproduction Category 2
Skin Corr. 1B	Skin corrosion Category 1B
Skin Irrit. 2	Skin 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
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure

H411	Toxic to aquatic life with long lasting effects
H412	Harmful 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.