

Safety Data Sheet Maxcem Elite Chroma

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name Maxcem Elite Chroma

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

Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.I. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311 E-mail: safety@kerrhawe.com

Manufacturer Kerr Corporation 1717 West Collins Avenue 92867 Orange – CALIFORNIA (U.S.A.) T 00-800-41-050-505 safety@kerrhawe.com

Contact person: safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

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

Classification of the substance or mixture

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

Skin Irrit. 2 Eye Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335

Full text of hazard classes and H-statements : see section 16

Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

Warning

Hazardous ingredients

2-hydroxyethyl methacrylate; 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-

diazahexadecane-1,16-diyl bismethacrylate; a,a-dimethylbenzyl hydroperoxide, cumene

hydroperoxide

Hazard statements (CLP)

H315 - Causes skin irritation H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H335 - May cause respiratory irritation

P261 - Avoid breathing vapours, gas, fume P264 - Wash hands thoroughly after handling Precautionary statements (CLP)

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor, a POISON CENTER if you feel unwell

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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

: None under normal conditions.

classification

Extra phrases

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

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	5 - 10	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
2-hydroxy-1,3-propanediyl bismethacrylate	(CAS No) 1830-78-0 (EC no) 217-388-4 (REACH-no) N/A	5-7	Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	(CAS No) 72869-86-4 (EC no) 276-957-5 (REACH-no) 01-2119408252-52	3-6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	(CAS No) 1565-94-2 (EC no) 216-367-7 (REACH-no) N/A	3 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ytterbium trifluorid	(CAS No) 13760-80-0 (EC no) 237-354-2 (REACH-no) N/A	3 - 4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	(CAS No) 28961-43-5 (EC no) 500-066-5 (REACH-no) 01-2119489900-30	1.5 - 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319
a,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	< 0.5	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

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	(C < 10) STOT SE 3, H335 (1 = <c 2,="" 3)="" <="" eye="" h319<br="" irrit.="">(3 =<c 1,="" 10)="" <="" dam.="" eye="" h318<br="">(3 =<c 10)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 10) Skin Corr. 1B, H314</c></c></c>

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general No particular/specific measures required.

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical advice/attention if you feel unwell.

First-aid measures after skin contact Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

First-aid measures after eve contact

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.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact Causes serious eye irritation.

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

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media 5.1.

First-aid measures after ingestion

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and

powder.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard Non flammable.

Explosion hazard Product is not explosive.

Hazardous decomposition products in case of When exposed to high temperatures may produce hazardous decomposition products

such as carbon monoxide and dioxide, fumes, nitrogen oxides (NOx), NH3, sulphur

compounds. Phosphorus oxides. Halogenated compounds. metallic oxide.

Advice for firefighters 5.3.

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 all eye and skin contact and do not breathe vapour and mist.

For non-emergency personnel

Protective equipment See Heading 8.

Emergency procedures Evacuate unnecessary personnel.

For emergency responders No additional information available

Environmental precautions

Avoid release to the environment.

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 Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Reference to other sections 6.4.

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, Precautions for safe handling

sparks, open flames and other ignition sources. No smoking.

Hygiene measures Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities 7.2.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Storage conditions

smoking. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated

place. Keep only in original container.

Incompatible products Oxidizing agent. Strong acids. 301020 Maxcem Elite Chroma

Incompatible materials

reducing materials. Organic peroxides. Amines. oxidizing materials.

Specific end use(s) 7.3.

Consult the supplier for further information. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters 8.1.

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,

Nitrile rubber gloves. PVC gloves. Polyvinylalcohol (PVA). Breakthrough time : 8 (> 480 minutes). Layer thickness : 0.2 - 0.4 mm. STANDARD EN 374 Hand protection

Safety glasses. STANDARD EN 166 Eye protection

Wear suitable protective clothing Skin and body protection

No special respiratory protection equipment is recommended under normal conditions of Respiratory protection

use with adequate ventilation





Other information

: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties 9.1.

Liquid Physical state Paste. Appearance Colour Various. : mint. Odour

No data available Odour threshold No data available pH Relative evaporation rate (butylacetate=1) No data available No data available Melting point No data available Freezing point No data available **Boiling point** No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C No data available

Relative density

Solubility Material insoluble in water.

No data available Log Pow No data available Viscosity, kinematic No data available Viscosity, dynamic Product is not explosive. **Explosive properties** Oxidising properties Non flammable. No data available **Explosive limits**

9.2. Other information No additional information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Keep away from heat and direct sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

10.5. Incompatible materials

oxidizing materials. 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	13 - 518 - 112 81-51862
1,1,3,3-Tetramethylbutyl hydropere	oxide (5809-08-5)	
LD50 oral rat	820 mg/kg	
α,α-dimethylbenzyl hydroperoxide	, cumene hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg	200
LD50 dermal rabbit	500 mg/kg	
LD50 dermal	500 mg/kg	
LC50 inhalation rat (mg/l)	1.4 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

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 (8	68-77-9)	
LC50 fish 1	227 mg/l (96 hours - Pimephales promelas)	
EC50 Daphnia 1	> 280 mg/l Daphnia magna, 48 hours	
IC50 algae	836 mg/l 72 hours - Pseudokirchnerella subcapitata	
α,α-dimethylbenzyl hydroperox	cide, cumene hydroperoxide (80-15-9)	
LC50 fish 1	3.9 mg/t (96 hours - Rainbow trout)	

12.2. Persistence and degradability

Maxcem Elite Chroma	
Persistence and degradability	No data available.
2-hydroxyethyl methacrylate (868-77-	9)
Biodegradation	84 % (OECD 301D method)
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,	14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)
Biodegradation	22 % (OECD 301F method)
α,α-dimethylbenzyl hydroperoxide, c	umene hydroperoxide (80-15-9)
Biodegradation	18 % (OECD 301C method)

12.3. Bioaccumulative potential

Maxcem Elite Chroma	
Bioaccumulative potential	No data.
(1-methylethylidene)bis[4,1-phenyleneoxy	/(2-hydroxy-3,1-propanediyl)] bismethacrylate (1565-94-2)
Bioconcentration factor (BCF REACH)	2.46
Log Pow	4.94
2-hydroxyethyl methacrylate (868-77-9)	
Bioconcentration factor (BCF REACH)	1,3 - 1,5
Log Pow	0.47
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-d	ioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)
Bioconcentration factor (BCF REACH)	1.91
Log Pow	4.69
α,α-dimethylbenzyl hydroperoxide, cume	ne hydroperoxide (80-15-9)
BCF fish 1	2.8
Log Pow	0.16

12.4. Mobility in soil

Maxcem Elite Chroma		
Ecology - soil	Material insoluble in water.	

12.5. Results of PBT and vPvB assessment

Maxcem Elite Chroma		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex	XIII	
This substance/mixture does not meet the vPvB criteria of RFACH 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

301020 Maxcem Elite Chroma 25/11/2015

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

Chemical safety assessment

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

SECTION 16: OTHER INFORMATION

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. Data sources

25/11/2015 Date of issue Revision date : 25/11/2015

Version : 1.0

Signature : A. Åsebø Murel

Full text of H- and EUH-statements:

ruil text of H- and EOH-statements.		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 4 (Demal)	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	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
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	
H335	May cause respiratory irritation	
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.