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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2019

*

Version number 1

Revision: 14.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: CERASMART270 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Product category PC0 Other · Process category PROC24 High (mechanical) energy work-up of substances bound in /on materials and/or articles • Environmental release category ERC12a Processing of articles at industrial sites with low release · Article category AC4 Stone, plaster, cement, glass and ceramic articles · Application of the substance / the mixture Auxillary for dental technology HYBRID CERAMIC CAD/CAM BLOCK • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax +32/(0)16/40.26.84 msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. The product is not classified, according to the CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- Exempt from requirements product regulated as a medical device or an in vitro diagnostic medical device. · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

No special measures required.

If symptoms persist consult doctor.

• After inhalation: Take affected persons into fresh air and keep quiet.

· After skin contact: Immediately rinse with water.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

Dispose of the material collected according to regulations.

• 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

· Information about fire - and explosion protection: Dust can combine with air to form an explosive mixture.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• *Requirements to be met by storerooms and receptacles:* Store only in unopened original receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Engineering controls

Always ensure that the extraction unit on your milling machine is in good working order.

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale dust / smoke / mist.

- Wash hands before breaks and at the end of work.
- · Respiratory protection: Suitable respiratory protective device recommended.
- · Protection of hands: Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material** The exact break through time has to be fou

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *Eye protection: Safety glasses*

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance: Form: Colour:

· Odour:

Solid mass According to product specification Odourless

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· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not determined.	
· Ignition temperature:	Undetermined.	
· Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapour pressure:	Not applicable.	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1.84 g/cm ³ Not determined. Not applicable. Not applicable.	
· Solubility in / Miscibility with water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not applicable. Not applicable. No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: No further relevant information available.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Repeated dose toxicity No further relevant information available.

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· CMR effects (carcinogenity, mutagenicity and toxicity 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.

• 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.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

· European waste catalogue

18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH
	(EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE
	HEALTH CARE)
10.01.00	and the form whether the second se
18 01 00	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent
	infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
	injection (or example a essings, plaster easis, mich, asposable crothing, aupers)

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA		
Class	not regulated	

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· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- · Classification according to Regulation (EC) No 1272/2008 Calculation method
- · Department issuing SDS: Regulatory affairs
- · Contact: msds@gc.dental

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Sources

• ECHA (http://echa.europa.eu/)

• EnviChem (www.echemportal.org)

* * Data compared to the previous version altered.

This version replaces all previous versions. Disclaimer:

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Version number 4 (replaces version 3)

Revision: 02.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: G-Multi PRIMER · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Auxiliary for dental technology • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax + 32/(0)16/40.26.84msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Exemptions

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

• Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling:

2,2'-ethylenedioxydiethyl dimethacrylate

2-Propenoic acid, 2-methyl-, polymer with (chloromethyl)oxirane and 4,4-(1-methylethylidene)bisphenol

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Hazard statements	
H225 Highly flamm	nable liquid and vapour.
H317 May cause a	n allergic skin reaction.
Precautionary stat	ements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P303+P361+P353	F IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards	с С

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· Dangerous components:		
CAS: 64-17-5	ethyl alcohol	90-<100%
EINECS: 200-578-6	Flam. Liq. 2, H225	
Index number: 603-002-00-5	substance with a Community workplace exposure limit	
CAS: 85590-00-7	methacryloyloxydecyl dihydrogen phosphate	1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	1-<2.5%
EINECS: 203-652-6	Skin Sens. 1, H317	
CAS: 36425-15-7	2-Propenoic acid, 2-methyl-, polymer with (chloromethyl)oxirane and	0.5-<1%
NLP: 500-089-0	4,4-(1-methylethylidene)bisphenol	
	Eye Dam. 1, H318; Skin Sens. 1, H317	
4.1.1.4	the wording of the listed har and physics refer to section 16	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

• After inhalation:

*

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

• After skin contact:

Generally the product does not irritate the skin. Immediately wash with water and soap and rinse thoroughly.

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Trade name: G-Multi_PRIMER

Seek medical treatment.

If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- · 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid contact with the eyes and skin. Wear protective clothing. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars. Dilute with plenty of water. - 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Allow to evaporate. Absorb liquid components with liquid-binding material. Dispose of the material collected according to regulations. · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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Trade name: G-Multi_PRIMER

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SECTION 7: Handling and storage · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray onto a naked flame or any incandescent material. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. · Information about storage in one common storage facility: Store away from foodstuffs. • Further information about storage conditions: *Keep container tightly sealed.* Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place. • 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethyl alcohol

WEL Long-term value: 1920 mg/m³, 1000 ppm

• *Additional information:* The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

• *Respiratory protection:*

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Suitable respiratory protective device recommended.

· Hand protection

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

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· Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· Eye/face protection



*

Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical pro	perties
· General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Alcohol-like
· Odour threshold:	Not determined.
• Melting point/freezing point:	-114.5 °C
· Boiling point or initial boiling point and boiling ran	ge 78 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	3.5 Vol %
· Upper:	15 Vol %
· Flash point:	13 °C
· Auto-ignition temperature:	425 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water at 20 °C:	1.000 g/l
	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	59 hPa
· Density and/or relative density	
· Density at 20 °C:	$0.8 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Liquid
Important information on protection of health a	-
environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
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Solvent content:		
Organic solvents:	94.0 %	
VÕC (EC)	752.0 g/l	
Change in condition	-	
Evaporation rate	Not determined.	
Information with regard to physical hazard classes		
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Highly flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable ga	ises	
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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.

· LD/LC50 values relevant for classification:

64-17-5 ethyl alcohol

Oral LD50 7,060 mg/kg (rat (f+m))

Inhalative LC50/4 h 20,000 mg/l (rat (f+m))

· Skin corrosion/irritation No further relevant information available

• *Respiratory or skin sensitisation* May cause an allergic skin reaction.

• Additional toxicological information:

• *Repeated dose toxicity No further relevant information available.*

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Trade name: G-Multi_PRIMER

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

11.2 Information on other hazards

• *Endocrine disrupting properties* None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

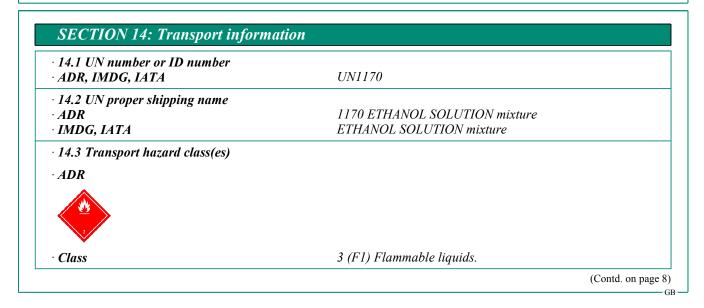
SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.



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Trade name: G-Multi_PRIMER

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Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	11
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number: Stowage Category	F-E,S-D A
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
Transport category	Maximum net quantity per outer packaging: 500 ml
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1170 ETHANOL SOLUTION MIXTURE, 3, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act

 · Regulated explosives precursors

 None of the ingredients is listed.

 · Regulated poisons

 None of the ingredients is listed.

 · Reportable explosives precursors

 None of the ingredients is listed.

 · Reportable explosives precursors

 (Contd. on page 9)

 - GB

Printing date 02.11.2023

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Trade name: G-Multi_PRIMER

Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H225 Highly flammable liquid and vapour.

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.

· Classification according to Regulation (EC) No 1272/2008 Calculation method

· Department issuing SDS: Regulatory affairs

· Contact: msds@gc.dental

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- *LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent*
- *PBT: Persistent. Bioaccumulative and Toxic*

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources

• ECHA (http://echa.europa.eu/)

• EnviChem (www.echemportal.org)

* Data compared to the previous version altered.

This version replaces all previous versions.

Disclaimer:

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Printing date 02.11.2023

Version number 4 (replaces version 3)

Revision: 02.11.2023

Trade name: G-Multi_PRIMER

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referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

GB -



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: OPTIGLAZE color (Clear, Orange, Red, Brown, Grey, Black, Pink, Yellow, Blue, Green, White, I vory White) · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Auxillary for dental technology • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax +32/(0)16/40.26.84 msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 2 H225 Highly flammable liquid and vapour. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Exemptions The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5). · Hazard pictograms GHS02 GHS07 · Signal word Danger (Contd. on page 2) GB

Printing date 23.05.2023

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Clear,_Orange,_Red,_Brown,_Grey,_Black,_Pink,_Yellow,_Blue,_Green,_White,_lv	vory
_White)	

	(Contd. of page 1)
· Hazard-dete	rmining components of labelling:
Methyl metho	
· Hazard state	ements
H225 Highly	flammable liquid and vapour.
H315 Causes	s skin irritation.
H317 May co	ause an allergic skin reaction.
H335 May co	ause respiratory irritation.
· Precautiona	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361-	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional in	nformation:
	zardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
· 2.3 Other ha	izards
· Results of P	BT and vPvB assessment
· PBT: Not ap	
• vPvB: Not ap	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

*

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

CAS: 80-62-6	Methyl methacrylate	50-<75%
<i>EINECS: 201-297-1</i> <i>Index number: 607-035-00-6</i>	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
	substance with a Community workplace exposure limit	
CAS: 7631-86-9	silicon dioxide	5-<10%
EINECS: 231-545-4	Nanoform: Spheroidal, amorphous nanoform, set including amorphous nanoforms, amorphous forms, non-surface-treated nanoforms	
CAS: 13463-67-7	titanium dioxide	2.5-<5%
EINECS: 236-675-5	<i>Carc. 2, H351</i>	
Index number: 022-006-00-2	substance with a Community workplace exposure limit	
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1-<2.5%
EINECS: 278-355-8	Repr. 2, H361f	
Index number: 015-203-00-X		

(Contd. on page 3)

Printing date 23.05.2023

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Clear,_Orange,_Red,_Brown,_Grey,_Black,_Pink,_Yellow,_Blue,_Green,_White,_Ivory _White)

(Contd. of page 2)

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

- If symptoms persist consult doctor.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

- *After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment. If skin irritation continues, consult a doctor.*
- After eve contact:

Rinse opened eye for several minutes under running water.

If symptoms persist consult doctor.

· After swallowing:

- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Keep away from ignition sources. Avoid contact with the eyes and skin. Wear protective clothing.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities.
6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

(Contd. on page 4)

GB

Printing date 23.05.2023

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Clear,_Orange,_Red,_Brown,_Grey,_Black,_Pink,_Yellow,_Blue,_Green,_White,_Ivory _White)

(Contd. of page 3)

Absorb liquid components with liquid-binding material. Dispose of the material collected according to regulations. • **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. • Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

· 7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control	parameters
-------------	------------

· Ingredients with limit values that require monitoring at the workplace:

80-62-6 Methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

13463-67-7 titanium dioxide

WEL Long-term value: 10* 4** mg/m³ *total inhalable **respirable

· DNELs

80-62-6 Methyl methacrylate

Dermal DNEL dermal 13.67 mg/kg bw/day (man) (worker, l. te., syst.)

Inhalative DNEL inhalation 208 mg/m3 (air) (worker, l. te., syst.)

13463-67-7 titanium dioxide

Inhalative DNEL inhalation 10 mg/m3 (man)

(Contd. on page 5)

GB

Printing date 23.05.2023

Revision: 23.05.2023

Trade name: OPTIGLAZE color (Clear, Orange, Red, Brown, Grey, Black, Pink, Yellow, Blue, Green, White, Ivory _White) (Contd. of page 4) • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls • Appropriate engineering controls No further data; see section 7. · Individual protection measures, such as personal protective equipment · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing · **Respiratory protection:** Suitable respiratory protective device recommended. · Hand protection Protective gloves · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye/face protection Tightly sealed goggles **SECTION 9: Physical and chemical properties** • 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: According to product specification · Odour: Pungent Not determined. · Odour threshold: • Melting point/freezing point: Undetermined. • Boiling point or initial boiling point and boiling range 101 °C · Flammability Highly flammable. · Lower and upper explosion limit · Lower: 2.1 Vol % · Upper: 12.5 Vol % $10 \,^{\circ}C$ · Flash point: • Auto-ignition temperature: Undetermined. · Decomposition temperature: Not determined. Not determined. · pH · Viscosity: · Kinematic viscosity Not determined.

Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

	(Contd. of page 5)
Dynamic:	Not determined.
Solubility	Tot delet milled.
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	Not delet milled.
Density and/or relative density Density at 20 °C:	1.06 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Particle characteristics	SiO2: Diameter particle structure = $2.5 - 50$ nm (TEM,
	d50, number-based)
	Diameter agglomerate = $5 - 50$ mm (laser diffraction dry
	module, d50, volume based)
	7631-86-9 silicon dioxide: Spheroidal, amorphous
	nanoform, set including amorphous nanoforms,
	amorphous forms, non-surface-treated nanoforms
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health a environment, and on safety. Ignition temperature: Explosive properties:	and Product is not selfigniting. Product does not present an explosion hazard.
Solvent content:	1 roduci does not present un explosion nazara.
VOC (EC)	0.0 g/l
Change in condition	0.0 g/t
Evaporation rate	Not determined.
•	Noi delermined.
Information with regard to physical hazard classes	V-: 4
Explosives	Void
Flammable gases	Void Void
Aerosols Avidising agent	Void Void
Oxidising gases	Void Void
Gases under pressure	Void Highly flammable liquid and uppour
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void V-: 1
Self-reactive substances and mixtures	Void Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable ga	
in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

(Contd. on page 7)

Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Clear,_Orange,_Red,_Brown,_Grey,_Black,_Pink,_Yellow,_Blue,_Green,_White,_Ivory _White)

(Contd. of page 6)

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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.

· LD/LC50 values relevant for classification:

· LD/LC50 values relevant for classification:			
80-62-6 M	80-62-6 Methyl methacrylate		
Oral	LD50	6,000 mg/kg (rabbit)	
Dermal	LD50	>5,000 mg/kg (rab)	
Inhalative	LC50/4 h	29.8 mg/l (rat (f+m))	
7631-86-9	silicon dio	<i>pxide</i>	
Oral	LD50	10,000 mg/kg (rat (f+m))	
13463-67-	13463-67-7 titanium dioxide		
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)	
Inhalative	Inhalative LC50/4 h >6.82 mg/l (rat male)		
· Skin corro	· Skin corrosion/irritation Causes skin irritation.		
· Respiratory or skin sensitisation May cause an allergic skin reaction.			
• STOT-single exposure May cause respiratory irritation.			
· Additional toxicological information:			
· Repeated dose toxicity No further relevant information available.			
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)			

No further relevant information available.

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

(Contd. of page 7)

Trade name: OPTIGLAZE_color_(Clear,_Orange,_Red,_Brown,_Grey,_Black,_Pink,_Yellow,_Blue,_Green,_White,_Ivory _White)

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

• Additional ecological information:

• General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

*

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1247
· 14.2 UN proper shipping name · ADR	1247 METHYL METHACRYLATE MONOMER STABILIZED mixture
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZEI mixture
· 14.3 Transport hazard class(es)	
ADR	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
- Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II

Printing date 23.05.2023

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Cl	ar,_Orange,_Red	,_Brown,_Grey,_	Black,_Pink,_	_Yellow,_Blue,_	_Green,_White,_I	lvory
_White)						

	(Contd. of page
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	C
Stowage Code	SW1 Protected from sources of heat.
5	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER
5	STABILIZED MIXTURE, 3, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

(Contd. on page 10)

⁻ GB -

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

	(Contd. of page 9)
Classification according to Regulation (EC) No 1272/2008 Calculation method	(****** F.G.**)
Department issuing SDS: Regulatory affairs	
Contact: msds@gc.dental	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agre	ement Concerning the International
Carriage of Dangerous Goods by Road)	Ū.
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
DNEL: Derived No-Effect Level (UK REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Skin Sens. 1: Skin correston/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Sources	
• ECHA (http://echa.europa.eu/)	
• EnviChem (www.echemportal.org)	
* Data compared to the previous version altered.	
This version replaces all previous versions.	
Disclaimer:	
The information contained herein is believed to be true and accurate. However, all s	

complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.



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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.05.2023

Version number 4 (replaces version 3)

Revision: 23.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: OPTIGLAZE color (Clear HV, A shades, B shades, C shades, D shades) · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Auxillary for dental technology • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax + 32/(0)16/40.26.84msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 2 H225 Highly flammable liquid and vapour. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Exemptions

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5). • Hazard pictograms



· Signal word Danger

(Contd. on page 2)

⁻ GB

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Version number 4 (replaces version 3)

Revision: 23.05.2023

Trade name: OPTIGLAZE_color_(Clear_HV,_A_shades,_ B_shades,_C_shades,_D_shades)

	(Contd. of page 1)
Hazard-det	ermining components of labelling:
Methyl meth	nacrylate
Hazard stat	ements
H225 Highl	y flammable liquid and vapour.
	es skin irritation.
H317 May 6	cause an allergic skin reaction.
H335 May 6	cause respiratory irritation.
Precaution	ary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other h	azards
Desults of L	DRT and NDNR assassment

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

• Dangerous components:		
CAS: 80-62-6	Methyl methacrylate	25-<50%
EINECS: 201-297-1 Index number: 607-035-00-6	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 substance with a Community workplace exposure limit	
CAS: 7631-86-9 EINECS: 231-545-4	silicon dioxide Nanoform: Spheroidal, amorphous nanoform, set including amorphous nanoforms, amorphous forms, non-surface-treated nanoforms	
CAS: 75980-60-8 EINECS: 278-355-8 Index number: 015-203-00-X	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361f	1-<2.5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.

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• After inhalation:

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Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

• *After skin contact: Immediately wash with water and soap and rinse thoroughly.*

Seek medical treatment.

If skin irritation continues, consult a doctor.

- *After eye contact: Rinse opened eye for several minutes under running water.*
- If symptoms persist consult doctor.
- *After swallowing: Rinse out mouth and then drink plenty of water.*
- If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures	
Remove persons from danger area.	
Keep away from ignition sources.	
Wear protective equipment. Keep unprotected persons away.	
Avoid contact with the eyes and skin.	
Wear protective clothing.	
6.2 Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Do not allow to penetrate the ground/soil.	
Do not allow to enter sewers/ surface or ground water.	
6.3 Methods and material for containment and cleaning up:	
Ensure adequate ventilation.	
Allow to evaporate.	
Absorb liquid components with liquid-binding material.	
Dispose of the material collected according to regulations.	
· 6.4 Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray onto a naked flame or any incandescent material. 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- *Requirements to be met by storerooms and receptacles: Store in a cool location.*
- Store only in unopened original receptacles.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.
 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

80-62-6 Methyl methacrylate

WEL Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

· DNELs

80-62-6 Methyl methacrylate

- Dermal DNEL dermal 13.67 mg/kg bw/day (man) (worker, l. te., syst.)
- Inhalative DNEL inhalation 208 mg/m3 (air) (worker, l. te., syst.)
- *Additional information:* The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Suitable respiratory protective device recommended.

• Hand protection

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: According to product specification · Odour: Pungent Not determined. • Odour threshold: · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range Undetermined. Highly flammable. · Flammability · Lower and upper explosion limit 2.1 Vol % · Lower: 12.5 Vol % · Upper: 10 °C • Flash point: Undetermined. · Auto-ignition temperature: Not determined. • Decomposition temperature: · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic: Not determined. · Solubility Insoluble. · water: · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure: Not determined. (Contd. on page 6)

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	(Contd. of page
Density and/or relative density	
Density at 20 °C:	$1.06 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
Particle characteristics	SiO2: Diameter particle structure = $2.5 - 50$ nm (TEM)
	d50, number-based)
	Diameter agglomerate $= 5 - 50$ mm (laser diffraction dr module, d50, volume based)
	7631-86-9 silicon dioxide: Spheroidal, amorphou
	nanoform, set including amorphous nanoforms amorphous forms, non-surface-treated nanoforms
9.2 Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of hea	
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	Trouver uses not present an explosion nazara.
· VOC (EC)	$0.0 \ g/l$
· Change in condition	0.0 5/1
· Evaporation rate	Not determined.
Information with regard to physical hazard cla	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
• Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
• Fummable solias • Self-reactive substances and mixtures	Void
• Self-reactive substances and mixtures • Pyrophoric liquids	Void
· Pyrophoric iquias · Pyrophoric solids	Void
• <i>Self-heating substances and mixtures</i>	Void
• Substances and mixtures, which emit flammab	
• Substances and mixtures, which emit flammab in contact with water	void
	Void
· Oxidising liquids	Void Void
• Oxidising solids	
Organic peroxides	Void
• Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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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.

· LD/LC50 values relevant for classification:

80-62-6 Methyl methacrylate

Oral	LD50	6,000 mg/kg (rabbit)
D 1	1 D 5 0	> 5 000 /1 (1)

Dermal LD50 > 5,000 mg/kg (rab)

Inhalative LC50/4 h 29.8 mg/l (rat (f+m))

7631-86-9 silicon dioxide

Oral LD50 10,000 mg/kg (rat (f+m))

· Skin corrosion/irritation Causes skin irritation.

• Respiratory or skin sensitisation May cause an allergic skin reaction.

• **STOT-single exposure** May cause respiratory irritation.

• Additional toxicological information:

• *Repeated dose toxicity No further relevant information available.*

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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^{· 12.1} Toxicity

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· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.*

14.1 UN number or ID number ADR, IMDG, IATA	UN1247
14.2 UN proper shipping name ADR	1247 METHYL METHACRYLATE MONOMEN
	STABILIZED mixture
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZE mixture
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3 Fiammable liquias.
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33 E E E E D
EMS Number: Stowage Category	F-E,S-D C
Stowage Category Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living quarters.
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	17
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml Maximum net quantity per outer packaging: 500 ml

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· Transport category · Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.

· Classification according to Regulation (EC) No 1272/2008 Calculation method

· Department issuing SDS: Regulatory affairs

· Contact: msds@gc.dental

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2

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(Contd. of page 9) Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • ECHA (http://echa.europa.eu/) • EnviChem (www.echemportal.org) • * Data compared to the previous version altered.

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