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

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Version number 2

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SECTION 1:	Identification of	f the substance/mixture and of the	e company/undertaking
· 1.1 Product ide	ntifier		
· 1.2 Relevant ide	<u>C G-aenial Bond</u> entified uses of the s vant information avai	ubstance or mixture and uses advised ag ilable.	gainst
• Application of t	he substance / the m	nixture Auxillary for dental technology	
• 1.3 Details of th • Manufacturer/S GC EUROPE N Interleuvenlaan B-3001 Leuven Tel. +32/(0)16/ Fax +32/(0)16/ msds@gceurop	74.10.00 /40.26.84	°ety data sheet	
1.4 Emergency National poison Belfast: +44 28 Birmingham: + Edinburgh: +44	<i>telephone number:</i> 90 63 2032 44 121 507 4123 4 131 242 1383 1 Tyne: +44 191 260	m: Regulatory affairs ingdom of Great Britain and Northern Ire 16182/+44 191 2606180	eland:
SECTION 2:	Hazards identif	ication	
· Classification a		o r mixture ion (EC) No 1272/2008 t regulated as a medical device or an in vi	vitro diagnostic medical device.
Flam. Liq. 2	H225 Highly fla	ummable liquid and vapour.	
Skin Irrit. 2	H315 Causes sk	in irritation.	
Eye Irrit. 2	H319 Causes se	rious eye irritation.	
Skin Sens. 1	H317 May caus	e an allergic skin reaction.	
STOT SE 3	H336 May cause	e drowsiness or dizziness.	
Aquatic Chroni	c 3 H412 Harmful t	o aquatic life with long lasting effects.	
Exempt from re	r ding to Regulation (quirements - product classified and labelle	(EC) No 1272/2008 t regulated as a medical device or an in v d according to the CLP regulation.	itro diagnostic medical device.

· Hazard pictograms



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· Signal word	(Contd. of page 1)
0	
acetone	ermining components of labelling:
	adiam diathy dimatha any lata
• Hazard stat	edioxydiethyl dimethacrylate
-	y flammable liquid and vapour.
	y jummable liquid and vapour. es skin irritation.
	es serious eye irritation.
	•
	cause an allergic skin reaction. cause drowsiness or dizziness.
	ful to aquatic life with long lasting effects.
P210	ary statements Keep much from heat het aufgeeg angeke ener flames and other ionition sources. No
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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/
	shower.
P305+P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional i	information:
	ne mixture consists of component(s) of unknown toxicity.
	0.1 % of components with unknown hazards to the aquatic environment.
2.3 Other h	
	PBT and vPvB assessment
• PBT: Not a	
vPvB: Not a	
	ippication.

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.

acetone	25-50%
Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
2-Hydroxy-1,3 dimethacryloxypropane	10-25%
Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
methacryloyloxydecyl dihydrogen phosphate	5-10%
Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
2,2'-ethylenedioxydiethyl dimethacrylate	1-5%
Skin Sens. 1, H317	1
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 2-Hydroxy-1,3 dimethacryloxypropane Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 methacryloyloxydecyl dihydrogen phosphate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 2,2'-ethylenedioxydiethyl dimethacrylate

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CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1-5%
EINECS: 278-355-8	Repr. 2, H361f	1
Index number: 015-203-00-X		
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	0.1-0.5%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1
• Additional information: For	the wording of the listed risk 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 and to be sure call for a doctor. 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: Protect unharmed eye. Rinse opened eye for several minutes under running water. Then 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, 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
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 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.

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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.	
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 7 for information on safe nanaling. See Section 8 for information on personal protection equipment.	
See Section 8 for hijormation on personal protection equipment. See Section 13 for disposal information.	
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	
7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.	
Ensure good ventilation/exhaustion at the workplace.	
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin.	
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.	
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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.	
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.	
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.	

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:

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

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· DNELs			
128-37-0 2	,6-di-tert-butyl-p-o	cresol	
Dermal	DNEL dermal	0.5 mg/kg bw/day (man)	
Inhalative	DNEL inhalation	3.5 mg/m3 (man)	

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

- · 8.2 Exposure controls
- · Personal protective equipment:
- \cdot 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.
- 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 found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9.1 Information on basic physical a General Information	nd chemical properties	
Appearance: Form:	Liquid	
Colour:	Liquid Light yellow	
Odour:	Ester-like	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-95 °C	
Boiling point/Boiling range:	56 °C	
Flash point:	-16 °C	

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Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2.6 Vol %	
Upper:	13.0 Vol %	
Vapour pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	<i>37.9 %</i>	
Water:	19.4 %	
VOC (EC)	470.0 g/l	
9.2 Other information	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.
- \cdot 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

· LD/LC50 values relevant for classification:

67-64-1 acetone

Oral LD50 5800 mg/kg (rat (f+m))

Dermal LD50 20000 mg/kg (rabbit)

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128-37-0 2,6-di-tert-butyl-p-cresol	
Oral $LD50 > 6000 \text{ mg/kg} (rat (f+m)) (OECD 401)$	
· Primary irritant effect:	
Skin corrosion/irritation	
Causes skin irritation.	
· Serious eye damage/irritation	
Causes serious eye irritation.	
· Respiratory or skin sensitisation	
May cause an allergic skin reaction.	
• Repeated dose toxicity No further relevant information available.	
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
No further relevant information available.	
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	
May cause drowsiness or dizziness.	
• 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.	

· 12.1 Toxicity

• Aquatic toxicity:

128-37-0 2,6-di-tert-butyl-p-cresol

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

- · 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.
- Ecotoxical effects:
- **Remark:** Harmful to fish
- 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. Harmful to aquatic organisms

- 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.

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· 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)

18 01 00 wastes from natal care, diagnosis, treatment or prevention of disease in humans

18 01 06* chemicals consisting of or containing dangerous substances

• Uncleaned packaging:

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

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number ADR, IMDG, IATA	UN1090	
14.2 UN proper shipping name ADR IMDG, IATA	<i>1090 ACETONE mixture ACETONE mixture</i>	
14.3 Transport hazard class(es)		
ADR		
Class	3 (F1) Flammable liquids.	
Label	3	
()		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group ADR, IMDG, IATA	II	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Flammable liquids.	
Danger code (Kemler):	33	
EMS Number:	F-E,S-D	
14.7 Transport in bulk according to Ann		
Marpol and the IBC Code	Not applicable.	

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1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
2
D/E
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1090 ACETONE MIXTURE, 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- 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.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- *H400 Very toxic to aquatic life.*
- H410 Very toxic to aquatic life with long lasting effects.
- · Classification according to Regulation (EC) No 1272/2008 Calculation method
- · Department issuing MSDS: Regulatory affairs
- · Contact: msds@gceurope.com
- · 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent
- LC50: Lethal concentration, 50 LD50: Lethal dose, 50 percent
- *PBT: Persistent, Bioaccumulative and Toxic*

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vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 2: Sensitive toxicity, Single supersume Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Acute 1: Hazarabus to the aquatic environment - AcuteHazara, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, 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.
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