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# Safety data sheet

# according to 1907/2006/EC, Article 31

Printing date 02.08.2018

Version number 4

Revision: 21.06.2017

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<b>Trade name: <u>GC Reline Bonding</u><u>Agent</u> 1.2 Relevant identified uses of the substance or mixture and uses adv No further relevant information available.</b>	ised against
Application of the substance / the mixture Auxillary for dental techno	logy
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 North 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	hern Ireland:

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. Flam, Lia, 2, H225 Highly flammable liquid and vapour.

1 ium. Liq. 2	11225	menny frammable neprita and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	Н335-Н336	May cause respiratory irritation. May cause drowsiness or dizziness.

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

· Hazard pictograms



· Signal word Danger

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<sup>-</sup> GB

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Hazard-	determining components of labelling:
	nethacrylate
2-hydrox	ryethyl metacrylate
acetone	
Hazard :	statements
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
Н335-Н.	336 May cause respiratory irritation. May cause drowsiness or dizziness.
	onary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P	361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P	351+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.
2.3 Othe	r hazards
Results of	of PBT and vPvB assessment
	t applicable.
	l annlicable

· vPvB: Not applicable.

### **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.

EINECS: 201-297-1       Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE         Index number: 607-035-00-6       3, H335         CAS: 67-64-1       acetone         EINECS: 200-662-2       Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336         Index number: 606-001-00-8       Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	• Dangerous components:		
EINECS: 200-662-2       Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336         Index number: 606-001-00-8	EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE	50-<75%
EINECS: 212-782-2 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	EINECS: 200-662-2		25-<50%
	EINECS: 212-782-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-<10%

• 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.* 

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(Contd. of page 2) 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 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  $\cdot$  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  $\cdot$  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. 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. · 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 8 for information on personal protection equipment. See Section 13 for disposal information.

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Ensure good ventilation/exhaustion at the workplace. 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	7.1 Precautions for safe hand	dling	
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SECTION 8: Exposure controls/personal protection	7.3 Specific end use(s) No fut	rther relevant information available.	
SECTION 8: Exposure controls/personal protection			
SECTION 6. Exposure controls/personal protection	SECTION 8. Ernosure	controls/nersonal protection	
	SECTION 6. Exposure		

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

### 80-62-6 Methyl methacrylate

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm Long-term value: 208 mg/m<sup>3</sup>, 50 ppm

67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

### · DNELs

#### 80-62-6 Methyl methacrylate

DermalDNEL dermal13.67 mg/kg bw/day (man) (worker, l. te., syst.)InhalativeDNEL inhalation208 mg/m3 (air) (worker, l. te., syst.)

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

#### · 8.2 Exposure controls

- · 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

Do not inhale gases / fumes / aerosols.

· Respiratory protection: Suitable respiratory protective device recommended.

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• 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:	Not determined.	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	nge: 100 °C	
Flash point:	-17 °C	
Flammability (solid, gas):	Not applicable.	
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:	2.1 Vol %	
Upper:	13.0 Vol %	
Vapour pressure:	Not determined.	
Density at 20 °C:	0.95 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	

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· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic at 20 °C:	0.6 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	27.0 %	
VÕC (EC)	256.5 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.
- · 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.

		vant for classification:	
80-62-6 M	ethyl meth	acrylate	
Oral	LD50	6000 mg/kg (rabbit)	
Dermal	LD50	>5000 mg/kg (rab)	
Inhalative	LC50/4 h	29.8 mg/l (rat (f+m))	
67-64-1 ac	etone		
Oral	LD50	5800 mg/kg (rat (f+m))	
Dermal	LD50	20000 mg/kg (rabbit)	
· Primary ir	ritant effe	ct:	
<ul> <li>Skin corro</li> </ul>	sion/irrita	tion	
Causes ski			
· Serious ey	0		
Causes ser	2		
-	•	ensitisation	
-	•	c skin reaction.	
-		<b>y</b> No further relevant information available.	
		ogenity, mutagenicity and toxicity for reproduction)	
No further	relevant ir	formation available.	
· Germ cell	mutagenic	<i>ity</i> Based on available data, the classification criteria are not met.	
· Carcinoge	nicity Base	ed on available data, the classification criteria are not met.	
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- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation. 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.

# **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.

· European	· 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.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
·ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, METHY
	METHACRYLATE MONOMER, STABILIZED), specie
	provision 640D
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLAT
	MONOMER, STABILIZED, ACETONE)

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· 14.3 Transport hazard class(es)		
·ADR		
3		
Class	3 (F1) Flammable liquids.	
· Label	3	
· IMDG, IATA		
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	<i>Warning: Flammable liquids.</i> 33	
· Danger code (Kemler): · EMS Number:	55 F-E,S-E	
· Stowage Category	B	
· 14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	IL C. I. F2	
$\cdot$ Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner po	ackaoino· 30 ml
	Maximum net quantity per uner pe	
· Transport category	2	-
· Tunnel restriction code	D/E	
· IMDG	11	
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2	
(~ <u>z</u> )	Maximum net quantity per inner pa	
	Maximum net quantity per outer pa	uckaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQ	
	PROVISION 640D (ACETONE, 1 MONOMER, STABILIZED), 3, II	METHYL METHACRYLATE
	monomen, stadililed), 3, II	

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### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

- · 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
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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.

· 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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (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 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.

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