GB

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

Version number 2 Revision: 27.07.2015 Printing date 27.07.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: VITACOLL · Article number: A9C100 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / product Auxiliary for manufacture of dental prothesis · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: VITA Zahnfabrik H. Rauter GmbH & Co. KG Postfach 1338 Tel.: 07761/562-0 D 79704 Bad Säckingen Fax: 07761/562299 e-mail: info@vita-zahnfabrik.com • 1.4 Emergency telephone number: Tel.: ++49-(0)761-19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant R36/37/38: Irritating to eyes, respiratory system and skin. Xi; Sensitising R43: May cause sensitisation by skin contact. F; Highly flammable *R11*: Highly flammable. R67: Vapours may cause drowsiness and dizziness. · Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Has a narcotising effect. · Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. (Contd. on page 2)

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2.2 Label	elements
Labelling	according to Regulation (EC) No 1272/2008
	uct is classified and labelled according to the CLP regulation.
Hazard p	ictograms
▲ ⁻	▲
<u> (19</u>)	
	\mathbf{V}
GHS02	GHS07
Signal wo	p rd Danger
Hazand d	letermining components of labelling.
	letermining components of labelling:
butanone	ethacrylate
Hazard st H225	
	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
	36 May cause respiratory irritation. May cause drowsiness or dizziness.
	onary statements
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	261+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P3	251+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other	hazards
Results of	f PBT and vPvB assessment
PBT: Not	t applicable.

• *PBT*: Not applicable. • *vPvB*: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 80-62-6	methyl methacrylate	25-50%
EINECS: 201-297-1	🗙 Xi R37/38; 🗙 Xi R43; 🔥 F R11	
Reg.nr.: 01-2119452498-28	♦ Flam. Liq. 2, H225; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 78-93-3	butanone	25-50%
EINECS: 201-159-0	🗙 Xi R36; 🍓 F R11	
Reg.nr.: 01-2119457290-43	R66-67	
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
Additional information For	the wording of the listed risk phrases refer to section 16.	

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact Immediately wash with water and soap and rinse thoroughly.

· After eye contact

Rinse open eye for several minutes with running water. If symptoms persist, consult a doctor.

• After swallowing Rinse out mouth and then drink plenty of water.

· 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents
- Water.

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Water with full jet.

- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- · Additional information None

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

• 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.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles: Store in a cool place with good ventilation

· Information about storage in one common storage facility: Not required.

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• *Further information about storage conditions: Keep receptacle tightly sealed.*

Store in cool, dry conditions in well sealed receptacles.

- · Storage class 3
- · 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:
- 80-62-6 methyl methacrylate
- WEL Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

78-93-3 butanone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

· Ingredients with biological limit values:

78-93-3 butanone

BMGV 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

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

· 8.2 Exposure controls

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

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

- · Respiratory protection: Use ventilation hood
- Protection of hands:



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

e.g. Butoject, KCL Nr. 897

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.

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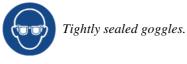
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• *Penetration time of glove material e.g. KCL Butoject 60 min*

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

· Eye protection:

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SECTION 9: Physical and che	mical properties
9.1 Information on basic physical and General Information Appearance:	d chemical properties
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined 79 °C
Flash point:	< -5 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	430 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.8 Vol %
Upper:	12.5 Vol %
Oxidising properties	None
Vapour pressure at 20 °C:	105 hPa
Density at 20 °C:	0.872 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water): Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent content:	
Organic solvents:	50.0 %
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• 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No decomposition if used and stored according to specifications.

- 10.2 Chemical stability No decomposition if used and stored according to specifications.
- 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

· LD/LC50 values relevant for classification:

80-62-6 m	ethyl meth	acrylate
Oral	LD50	>5000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalative LC50/4 h 29.8 mg/l (rat)

78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)

- · 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.
- · 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
- 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.

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- · 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

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Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

• 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 · IMDG, IATA	UN1993 FLAMMABLE LIQUID, N.O.S. (vapour pressur at 50 °C not more than 110 kPa) (ETHYL METHYL KETONE (METHYL ETHYL KETONE), METHYL METHACRYLATE MONOMER, STABILIZED) FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), METHYL
	METHACRYLATE MONOMER, STABILIZED)
• 14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
· Class · Label	3 Flammable liquids. 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:	<i>F-E</i> , <u><i>S-E</i></u>
• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml

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· Transport category	2
Tunnel restriction code	D/E
·IMDG	
Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (VAPOU
C C	PRESSURE AT 50 °C NOT MORE THAN 110 KPA
	(ETHYL METHYL KETONE (METHYL ETHYL KETONE)
	METHYL METHACRYLATE MONOMER, STABILIZED
	3, <i>II</i>

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SECTION 15: Regulatory information

 \cdot 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.
- · National regulations
- · Technical instructions (air):

ClassShare in %NK25-50

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· 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.
- R11 Highly flammable.
- *R36 Irritating to eyes.*

R37/38 Irritating to respiratory system and skin.

- *R43* May cause sensitisation by skin contact.
- *R66 Repeated exposure may cause skin dryness or cracking.*
- *R67* Vapours may cause drowsiness and dizziness.

· 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*

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PBT: Persistent, Bioaccumulative and Toxic 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 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 • * Data compared to the previous version altered. (Contd. of page 8)

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