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

Printing date 23.10.2012 *Version number 2* *Revision: 23.10.2012*

1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

· **Trade name: VITA ETCHANT GEL**

· **Article number:** FCEG
· **Relevant identified uses of the substance or mixture and uses advised against**
· **Application of the substance / product** Auxiliary for manufacture of dental prothesis

· **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
· **Emergency telephone number:** Tel.: ++49-(0)761-19240

2 Hazards identification

· **Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R34: Causes burns.
· **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.
· **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**



C Corrosive

· **Hazard-determining components of labelling:**
phosphoric acid

· **Risk phrases:**
34 Causes burns.

· **Safety phrases:**
20 When using do not eat or drink.
23 Do not breathe gas/fumes/vapour/spray.

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26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.

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

3 Composition/information on ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid	C R34 Skin Corr. 1B, H314	25-50%

· ***Additional information*** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

· ***Description of first aid measures***
· ***General information*** *Immediately remove any clothing soiled by the product.*
· ***After inhalation*** *Supply fresh air; consult doctor in case of complaints.*
· ***After skin contact*** *Immediately wash with water and soap and rinse thoroughly.*
· ***After eye contact*** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
· ***After swallowing*** *Drink plenty of water and provide fresh air. Call for a doctor immediately.*
· ***Information for doctor***
· ***Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

5 Firefighting measures

· ***Extinguishing media***
· ***Suitable extinguishing agents***
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:***
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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· ***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.

7 Handling and storage

· ***Handling***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· ***Information about fire - and explosion protection:*** *No special measures required.*

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and receptacles:***
Store only in the original receptacle.
Store in a cool place with good ventilation
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:***
Store in a cool place.
Protect from heat and direct sunlight.
Protect from exposure to the light.
Store in the dark.
Keep receptacle tightly sealed.
· ***Storage class*** *8 A*
· ***Specific end use(s)*** *No further relevant information available.*

8 Exposure controls/personal protection

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

· ***Control parameters***

· ***Ingredients with limit values that require monitoring at the workplace:***	
7664-38-2 phosphoric acid	
WEL	*Short-term value: 2 mg/m³* *Long-term value: 1 mg/m³*

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

· ***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.
· ***Material of gloves***
Nitrile rubber, NBR

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e.g. Dermatril P, KCL Nr. 743
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***
KCL Dermatril P 480 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:***



Tightly sealed goggles.

9 Physical and chemical properties

· ***Information on basic physical and chemical properties***	
· ***General Information***	
· ***Appearance:***	
Form:	*Fluid*
Colour:	*Blue*
· ***Odour:***	*Characteristic*
· ***Odour threshold:***	*Not determined.*
· ***pH-value at 20°C:***	*1*
· ***Change in condition***	
Melting point/Melting range:	*undetermined*
Boiling point/Boiling range:	*> 150°C*
· ***Flash point:***	*Not applicable*
· ***Flammability (solid, gaseous)***	*Not applicable.*
· ***Ignition temperature:***	
Decomposition temperature:	*Not determined.*
· ***Self-igniting:***	*Product is not selfigniting.*
· ***Danger of explosion:***	*Product does not present an explosion hazard.*
· ***Explosion limits:***	
Lower:	*Not determined.*
Upper:	*Not determined.*
· ***Oxidizing properties***	*None*
· ***Vapour pressure at 20°C:***	*23 hPa*
· ***Density at 20°C:***	*1.3 g/cm³*
· ***Relative density***	*Not determined.*
· ***Vapour density***	*Not determined.*
· ***Evaporation rate***	*Not determined.*
· ***Solubility in / Miscibility with***	
Water:	*Fully miscible*
· ***Segregation coefficient (n-octanol/water):***	*Not determined.*
· ***Viscosity:***	
dynamic:	*Not determined.*

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kinematic:	*Not determined.*
· ***Solvent content:***	
Organic solvents:	*0.0 %*
Water:	*58.4 %*
· ***Other information***	*No further relevant information available.*

10 Stability and reactivity

· ***Reactivity*** *No decomposition if used and stored according to specifications.*
· ***Chemical stability*** *No decomposition if used and stored according to specifications.*
· ***Thermal decomposition / conditions to be avoided:*** *No decomposition if used according to specifications.*
· ***Possibility of hazardous reactions*** *No dangerous reactions known*
· ***Conditions to avoid*** *No further relevant information available.*
· ***Incompatible materials:*** *No further relevant information available.*
· ***Hazardous decomposition products:*** *No dangerous decomposition products known*

11 Toxicological information

· ***Information on toxicological effects***
· ***Acute toxicity:***
· ***Primary irritant effect:***
· ***on the skin:*** *Caustic effect on skin and mucous membranes.*
· ***on the eye:*** *Strong caustic effect.*
· ***Sensitization:*** *No sensitizing effects known.*
· ***Additional toxicological information:***
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· ***Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***Persistence and degradability*** *No further relevant information available.*
· ***Behaviour in environmental systems:***
· ***Components:*** *Not determined*
· ***Bioaccumulative potential*** *No further relevant information available.*
· ***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.
Must not reach sewage water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

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· ***Other adverse effects*** *No further relevant information available.*

13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation*** *Disposal must be made according to official regulations.*

· ***European waste catalogue***	
20 00 00	*MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*
20 01 00	*separately collected fractions (except 15 01)*
*20 01 14**	*acids*

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*
· ***Recommended cleansing agents:*** *Water, if necessary together with cleansing agents.*

14 Transport information

· ***UN-Number***
· ***ADR, IMDG, IATA*** *UN1805*

· ***UN proper shipping name***
· ***ADR*** *1805 PHOSPHORIC ACID, SOLUTION, mixture*
· ***IMDG, IATA*** *PHOSPHORIC ACID, SOLUTION, mixture*

· ***Transport hazard class(es)***

· ***ADR, IMDG, IATA***



· ***Class*** *8 Corrosive substances.*
· ***Label*** *8*

· ***Packing group***
· ***ADR, IMDG, IATA*** *III*

· ***Environmental hazards:***
· ***Marine pollutant:*** *No*

· ***Special precautions for user*** *Warning: Corrosive substances.*
· ***Danger code (Kemler):*** *80*
· ***EMS Number:*** *F-A,S-B*
· ***Segregation groups*** *Acids*

· ***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code*** *Not applicable.*

· ***Transport/Additional information:***

· ***ADR***
· ***Tunnel restriction code*** *E*

· ***UN "Model Regulation":*** *UN1805, PHOSPHORIC ACID, SOLUTION, mixture, 8, III*

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15 Regulatory information

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

· ***National regulations***

· ***Waterhazard class:*** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
· ***Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

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***
H314 Causes severe skin burns and eye damage.

R34 Causes burns.
· ***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 Harmonized System of Classification and Labelling of Chemicals