Tel.: 07761/562-0

Fax: 07761/562299

## Material Safety Data Sheet acc. to ISO/DIS 11014

Reviewed on 10/23/2012 Printing date 10/23/2012

## 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 / the preparation 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 D 79704 Bad Säckingen e-mail: info@vita-zahnfabrik.com

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

## 2 Hazards identification

· Classification of the substance or mixture



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



Corrosive

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 was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:



C Corrosive

- · Hazard-determining components of labelling: phosphoric acid

· Risk phrases: Causes burns.

· Safety phrases:

When using do not eat or drink.

Do not breathe gas/fumes/vapour/spray.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

(Contd. on page 2)

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

(Contd. of page 1)

25-50%

In case of accident or if you feel unwell, seek medical advice immediately. This material and its container must be disposed of as hazardous waste.

- · Classification system
- · NFPA ratings (scale 0-4)



- · 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 the substances listed below with nonhazardous additions.
- · Dangerous components:

7664-38-2 phosphoric acid

🔁 C R34 Skin Corr. 1B, H314

· 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 copious amounts of water and provide fresh air. Immediately call a doctor.
- · 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, extinguishing 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).

(Contd. on page 3)

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

(Contd. of page 2)

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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 protection against explosions and fires: 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 location.

- · 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 systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

### 7664-38-2 phosphoric acid

PEL 1 mg/m<sup>3</sup>

REL | Short-term value: 3 mg/m³

Long-term value: 1 mg/m<sup>3</sup>

TLV Short-term value: 3 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

- · Additional information: The lists that were valid during the creation 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.

· Breathing equipment: Use ventilation hood

(Contd. on page 4)

(Contd. of page 3)

# Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

### · 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

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
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<ul> <li>Information on basic physical and ch</li> <li>General Information</li> <li>Appearance:</li> </ul>	nemical properties
Form:	Fluid
Color:	Blue
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20°C (68 °F):	1
· Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	> 150°C (> 302 °F)
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto 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
· Vapor pressure at 20°C (68 °F):	23 hPa (17 mm Hg)
· Density at 20°C (68 °F):	1.3 g/cm³ (10.849 lbs/gal)
Relative density	Not determined.

(Contd. on page 5)

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

(Contd. of page 4)

Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Fully miscible

· Segregation coefficient (n-octonol/water): Not determined.

· Viscosity:

dynamic: Not determined. 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.
- $\cdot \textit{Additional toxicological information:}$

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Components: Not determined

(Contd. on page 6)

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

(Contd. of page 5)

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (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 bodies of 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.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
DOT, ADR, IMDG, IATA	UN1805
· UN proper shipping name	
· DOT, IMDG, IATA	PHOSPHORIC ACID, SOLUTION, mixture
· ADR	1805 PHOSPHORIC ACID, SOLUTION, mixture
Transport hazard class(es)	
DOT	
CORROSIVE	
· Class	8 Corrosive substances.
· Label	8
ADR, IMDG, IATA	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	III
Environmental hazards:	
· Marine pollutant:	No

(Contd. on page 7)

Printing date 10/23/2012 Reviewed on 10/23/2012

Trade name: VITA ETCHANT GEL

(Contd. of page 6)

· Special precautions for user Warning: Corrosive substances

Danger code (Kemler):
 EMS Number:
 Segregation groups
 B0
 F-A,S-B
 Acids

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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

### 15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

7664-38-2 phosphoric acid

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- · National regulations
- · Water hazard 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.

· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)