

Safety Data Sheet

According to 1907/2006/EC, Article 31

This version: 3.0 replaces version 11/2013
Revision: 18.05.2017
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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: FANTESTIC ® ETCH

Order-No.: EGS3000

1.2 Relevant identified uses of the substance or mixture and uses advised against Etching Gel

1.3 Details of the supplier of the safety data sheet

Manufacturer: R-dental Dentalerzeugnisse GmbH
Winterhuder Weg 88
D-22085 Hamburg
Germany
Phone: +49-(0)40-30 70 70 73-0
Fax: +49-(0)40-30 70 70 73-73
E-mail: info@r-dental.com
Web: www.r-dental.com

1.4 Emergency telephone number R-dental Dentalerzeugnisse GmbH,
Phone: +49-(0)40-30 70 70 73-0

Section 2: Hazards identification

2.1 Classification of the substance or mixture Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye irritation

See Section 15.

2.2 Label elements The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS05

Signal word: Danger

Additional information:	Medical Devices as defined in MDD 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.
2.3 Other hazards	PBT, vPvB not applicable. Avoid contact with skin and eyes.

Section 3: Composition/information on ingredients

3.1 Substances	Not applicable.
3.2 Mixtures	Mixture of phosphoric acid with with nonhazardous additions.
Components:	CAS-No.: [7664-38-2] Name: PHOSPHORIC ACID EINECS: 231-633-2 Protecting actions depends on the hazardous concentration and amount of material at working place.
Additional information:	None.

Section 4: First-aid measures

4.1 Description of first aid measures	
General information after inhalation:	Supply fresh air; consult physician in case of complaints.
General information after skin contact:	Wash with plenty of water and soap and consult an physician if necessary.
General information after eye contact:	Rinse with plenty of water and consult a physician.
General information after swallowing:	Rinse out mouth and then drink plenty of water. Immediately consult a physician.
4.2 Most important symptoms and effects, both acute and delayed	See subsection 4.1. Consult physician when in doubt.
4.3 Indication of any immediate medical attention and special treatment needed	See subsection 4.1.

Section 5: Fire fighting measures

5.1 Extinguishing media	
Extinguishing media:	The product is not flammable.
Unsuitable extinguishing media:	Not known. Suitable to surrounding conditions.
5.2 Special hazards arising from the substance or mixture	Not known.
5.3 Advice for firefighters	Protecting actions in use with extinguishing media, see subsection 5.1.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Avoid contact with material. Take up the material with absorbent materials.
6.2 Environmental precautions	Do not let liquid material come into contact with the environment.
6.3 Methods and material for containment and cleaning up	Dilute with plenty of water. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
6.4 Reference to other sections	See section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling	This product should only be used by a dentist and/or a licensed professional. Store away from food stuffs. When in use do not eat, drink or smoke.
7.2 Conditions for safe storage, including any incompatibilities	Store in dry place, at room temperature or cool and away from food stuffs.
7.3 Special end use(s)	Store cool, dry and light protected under 77 °F.

Section 8: Exposure controls/personal protection

8.1 Control parameters	The product contains no relevant quantities of components with limits of values to be supervised at the workplace. Fresh air is recommended.
8.2 Exposure controls	
General protective and hygienic measures	Usual hygienic measures for dental practice. Wash hands before breaks and at the end of work. Keep away from food and beverages.
Eyes:	Wear eye glasses if necessary.
Hands:	Wear protective gloves. Commercial gloves will not guarantee sufficient protection in every case. Quality of gloves can differ and are tested before use. Penetration times can be verified at gloves manufacturers.
Respiration:	Not applicable.
Thermal driven:	None.
Environmental exposure:	See subsection 6.2.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
a) Appearance:	Blue gel.
aa) Colour:	Blue.

b) Odour:	Odourless.
c) Odour threshold:	Not applicable.
d) pH:	< 2 (68 °F).
e) Melting point/freezing point:	Not applicable.
f) Initial boiling point and boiling range:	Not applicable.
g) Flash point:	Not applicable.
h) Evaporation rate:	Not applicable.
i) Flammability (solid/gas):	Not applicable.
j) Upper/lower flammability or explosive limits:	Not applicable.
k) Vapour pressure:	Not applicable.
l) Vapour density:	Not applicable.
m) Relative density:	1,3 g/cm ³ (68 °F)
n) Solubility(ies):	
Water solubility:	Soluble to 95 %.
Soluble in/miscible with:	Organic solvents.
o) Partition coefficient:	Not applicable.
p) Auto-ignition temperature:	Not applicable.
q) Decomposition temperature:	Not applicable.
r) Viscosity:	Gellike.
s) Explosive properties:	Not applicable.
t) Oxidising properties.	Not applicable.
9.2 Other information	None.

Section 10: Stability and reactivity

10.1 Reactivity	See section 2.
10.2 Chemical stability	Stable when storing cool and light protected under 77 °F taking into account expiration date.
10.3 Possibility of hazardous reactions	Not applicable.
10.4 Conditions to avoid	Avoid heat and direkt sun light.
10.5 Incompatible materials	Polymerizes in contact with peroxids, metal powders, strong oxidizers and free radical starters.
10.6 Hazardous decomposition products	Oxides of phosphorous. None under normal conditions.

Section 11: Toxicological information

11.1 Information on toxicological effects	
a) acute toxicity:	LD50 oral (rat) 1530 mg/kg.
b) irritation:	See c).
c) corrosivity:	Acid reaction on skin and mucous membranes. Strong caustic effect on eye.
d) sensitisation:	Not known.
e) repeated dose toxicity:	None.
f) carcinogenicity:	Not known.
g) mutagenicity:	Not known.
h) toxicity for reproduction	Not known.
Toxicological tests:	None.
Experience in practice:	Slightly irritating to the skin, irritating to eyes.
Informations on ingredients:	See section 3.
Additional toxicological information:	Swallowing will lead to a strong intraoral caustic effect on

mouth and throat and to the danger of perforation of esophagus and stomach.

Section 12: Ecological information

12.1 Toxicity	Do not let the undiluted material come in contact with the environment.
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	Not applicable.
12.6 Other adverse effects	Only let the diluted material come in contact with the environment.

Section 13: Disposal considerations

13.1 Waste treatment methods	Use proper landfill disposal or incineration in accordance with local, state and federal regulations.
Disposal key number:	Not known.
Uncleaned packaging:	Use proper landfill disposal or incineration in accordance with local, state and federal regulations.
Cleaned packaging:	Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

Section 14: Transport information

14.1 UN Number	UN1805
14.2 UN proper shipping name	ADR: 1805 PHOSPHORIC ACID, SOLUTION IMDG. IATA: PHOSPHORIC ACID, SOLUTION
14.3 Transport hazard class(es)	
Land transport ADR/RID, GGVS/GGVE:	8 (C1) Corrosive substances.
Sea transport IMDG/GGVSea:	8 Corrosive substances.
Air transport ICAO-TI and IATA-DGR:	8 Corrosive substances.
14.4 Packing group	III.
14.5 Environmental hazards	See subsection 2.3.
14.6 Special precautions for user	Attention: Corrosive substances.
Kemler-Code:	80.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

Section 15: Regulatory information

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

The product is a class IIa medical device according to the MDD 93/42/EEC.

15.2 Chemical safety assessment

No.

Section 16: Other informations

a) Changes to previous version:

Preparing the Material Safety Data Sheet according to 1907/2006/EC, Article 31.

b) Legend to abbreviations:

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)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

c) Literature references:

Not applicable.

d) Methods of evaluation information:

Not applicable.

e) R-phrases, stated:

See section 2-15.

f) Training advices:

Not applicable.

Data sheet producing area:

R-dental Dentalerzeugnisse GmbH, Hamburg.

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to product properties. However users of the product should satisfy themselves that the information given above is sufficient and correct for their circumstances of use.

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