

Safety Data Sheet

According to Regulation (EU) 2015/830

IMPORTANT

Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

1. IDENTIFICATION

1.1 Product Identifier

Product Name	PerfectETCH-E
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use	Dental use only.
Description	Dental Product

1.3 Supplier of the Safety Data Sheet

Company Name	Perfection Plus Ltd
Company Address	6 Westwood Court, Brunel Road, Totton, Hants. SO40 3WX. UK
Company Phone No.	+44 (0) 2380 866 677
Website	www.perfectionplus.com
Telephone	0044 (0) 2380 866677
Email	Regulatory@perfectionplus.com
Email address of Competent Person	Regulatory@perfectionplus.com

1.4 Emergency telephone number


Emergency telephone number	0044 (0) 230 866 677 (8am – 5pm Monday to Friday)
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314; Met. Corr. 1: H290
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2.2 Label Elements

Hazard Pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 – Causes severe skin burns and eye damage. Met. Corr. 1: H290 – May be corrosive to metals
Precautionary Statement: Prevention	P234 – Keep only in original container. P260 – Do not breathe vapours. P264 – Wash hands thoroughly after handling. P280 – Wear protective gloves/protective clothing/ eye protection/face protection. P390 – Absorb spillage to prevent material damage.
Precautionary Statement: Response	P301+P330+P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P310 – Immediately call a POISON CENTRE or doctor/physician. P363 - Wash contaminated clothing before use.
Precaution Statement: Disposal	P501: Dispose of contents/container as required by national regulatory requirements.

2.3 Other hazards

Other hazards	PBT. vPvB. Not applicable.
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Further information

Medical devices as defined in Directive 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	CONC. (%w/w)	Classification
Phosphoric acid	015-011-00-6	7664-38-2	231-633-2		35-40%	Skin corr. 1B: H314; Met. Corr. 1: H290;

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove the casualty from the hazardous area and take him to fresh air. If the casualty is not breathing give artificial respiration, notify emergency physician immediately.
Eye Contact	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Refer for medical attention.
Skin contact	Take off contaminated clothing. Wash off immediately with plenty of soap and water. Consult a physician. Wash contaminated clothing before reuse.
Ingestion	Never give anything by mouth to an unconscious person. Take casualty to the hospital. If the person is conscious rinse the mouth and spit the fluids out. Subsequently, have the casualty drink 1-2 glasses of water immediately. Do not try to neutralise with bases, no charcoal. DO NOT induce vomiting. During spontaneous vomiting - hold the head of the casualty low with the body in a prone position in order to avoid the penetration of vomit into the airways. Refer for immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	May be corrosive to mucous membranes.
Eye Contact	May be corrosive to eyes.
Skin contact	May be corrosive to skin.
Ingestion	Ingestion causes burns to the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation	No data available
Eye Contact	No data available
Skin contact	No data available
Ingestion	No data available

General information

	If you feel unwell, seek medical advice (show the label where possible).
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

	Water, dry chemical foam.
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5.2 Special hazards arising from the substance or mixture

	Hydrogen gas may be released in contact with metals.
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5.3 Advice for firefighters

	Wear self-contained breathing apparatus for firefighting.
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

	Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation.
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6.2 Environmental precautions

	Do not allow product to enter drains.
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6.3 Methods and material for containment and cleaning up

	Use personal protective equipment when cleaning. Soak up spills with inert absorbent material. Collect spills and put it into appropriate container if it is safe to do so. Dispose in a safe manner in accordance with national regulatory requirements.
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6.4 Reference to other sections

	See section 13 for disposal information.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

	Corrosive. Use personal protective equipment. Avoid contact with eyes and skin. Ensure adequate ventilation. Keep away from food, drinks and animal feed. Do not eat, drink or smoke when using this product.
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7.2 Conditions for safe storage, including any incompatibilities

	Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from heat and direct sunlight. Storage temperature: preferably not exceeding 28°C.
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7.3 Specific end use(S)

	For professional use in dentistry only.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

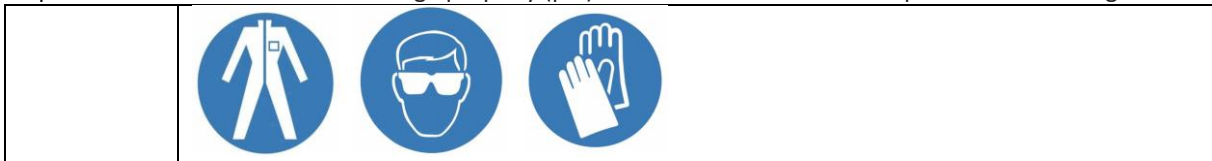
8.1 Control parameters

8.1.1 Exposure Limit Values

Phosphoric acid	WEL 8-hr limit ppm:	-	WEL 8-hr limit mg/m ³ :	1
	WEL 15 min limit ppm:	-	WEL 15 min limit mg/m ³ :	3
	WEL 8-hr limit mg/m ³ total inhalable dust:	-	WEL 15 min limit mg/m ³ total inhalable dust:	-
	WEL 8-hr limit mg/m ³ total respirable dust:	-	WEL 15 min limit mg/m ³ total respirable dust:	-

8.2 Exposure controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Storage properly (p.7). Preventive medical check-ups should be arranged



8.2.1 Appropriate engineering controls

	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
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8.2.2 Individual protection measures

	Wear chemical protective clothing.
Eye/face protection	Wear eye / face protection equipment. Safety glasses with side-shields, conforming to EN 166.
Skin protection – Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory protection	Wear self-contained breathing apparatus. If you need to protect the airways use respirators, that have been tested and approved by the relevant governmental standards, such as CEN (EU) or NIOSH (USA).

8.2.3 Environmental exposure controls

	Do not let enter the environment.
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9. PHYSICAL AND CHEMICAL PROPERTIES
9.1. Information on basic physical and chemical properties

Appearance	Blue/green gel	Viscosity, cP	>6000
Odour	Specific	Flash point °C	No data available
pH	<1	Initial boiling point °C	No data available

10. STABILITY AND REACTIVITY
10.1 Reactivity

	No data available.
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10.2 Chemical stability

	Stable under recommended storage conditions.
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10.3 Possibility of hazardous reactions

	No data available.
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10.4 Conditions to avoid

	No data available.
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10.5 Incompatible materials

	Strong bases, metals.
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10.6 Hazardous decomposition products

	At high temperature may liberate oxides of phosphorus.
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11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	Primary skin irritation (ISO 01993-10) by direct application in rabbits. Erythema and oedema scores: 0.06 during 72 hours observation period. Result: skin irritation response: negligible.
Serious eye damage/irritation	No data available
Respiratory of skin sensitisation	Delayed type hypersensitivity (ISO 10993-10) by maximisation test in guinea pigs. Result: not sensitising.
Germ cell mutagenicity	No data available.
Carcinogenicity	IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Repeated or prolonged exposure	No data available.

11.1.4 Toxicological Information

Phosphoric acid	ORAL Rat LD50: 2600 mg/kg DERMAL Rabbit LD50: >2000 mg/kg	INHALATION Guinea pig LC50: 193 mg/m3
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12. ECOLOGICAL INFORMATION
12.1 Toxicity

	No data available
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12.2 Persistence and degradability

	No data is available on this product.
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12.3 Bio accumulative potential

	No data is available on this product.
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12.4 Mobility in soil

	No data is available on this product.
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12.5 Results of PBT and vPvB assessment

	No data is available on this product.
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12.6 Other adverse effects

	No data is available on this product.
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13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods

	Dispose of in compliance with all local, state or national legislation. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product. Do not remove the information from the package.
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General information

	18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care). 18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans. 18 01 06 chemicals consisting of or containing dangerous substances.
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Disposal Methods

	Do not empty in to drains. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
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Disposal of packaging

	Do NOT reuse empty canisters. Empty containers can be sent for disposal or recycling.
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14. TRANSPORT INFORMATION
Hazard pictograms

	
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14.1 UN number

	UN1805
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14.2 UN proper shipping name

	PHOSPHORIC ACID, SOLUTION
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14.3 Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4 Packing group

Packing Group	III
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14.5 Environmental hazards

Environmental hazards	No
Marine pollutant	No

15. REGULATORY INFORMATION

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

Regulations	This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010. Other Regulations: EINECS: Components of mixture are on the European Inventory of Existing Commercial Chemical Substances. This safety data sheet information is not a professional risk assessment.
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15.2 Chemical Safety Assessment

	No data available.
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16. OTHER INFORMATION

Other information

Text of Hazard Statements in Section 3	H290: May be corrosive to metals H314: Causes severe skin burns and eye damage P234: Keep only in original container P260: Do not breathe vapours P280: Wear protective gloves/protective clothing/eye protection/face protection. P390: Absorb spillage to prevent material damage. P301+P330+P333: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310: Immediately call a POISON CENTRE or doctor/physician. P363: Wash contaminated clothing before use. P501: Dispose of contents/container as required by national regulatory requirements.
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Further information

The information used in this SDS is believed to be correct however, the information is provided without any warranty, neither expressed nor implied, regarding its correctness.

This SDS is relevant for large quantities of product, the instructions for safe use of quantities typically used during a normal procedure is as referenced in the Instructions for Use.

The conditions or methods for handling, storage, lone use and/or in combination with other products and disposal are beyond our control.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for this product. If the product is used as a component in or in combination with another product, this SDS information may not be applicable.