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SECTION 1: Identification of the substance or mixture and of the company

1.1. Product identifier

Product description: Etching Gel.

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

Identified Use Professional use: Product utilized to enhance direct bonding technique on fixed orthodontic

appliances.

1.3. Details of the supplier of the safety data sheet

Leone s.p.a.

I – 50019 Sesto Fiorentino – Firenze - Via P. a Quaracchi, 50

e-mail: <u>research@leone.it</u> - <u>http://www.leone.it</u> Tel. +39 055.30.44.1 - Fax +39 055 374808.

1.4. Emergency telephone number

+39 055.30.44.1. An answering machine is on during closing time.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

According to Regulation (EC) no. 1272/2008 [CLP].

Skin corrosion 1B

H314

For full text of H phrases see Section 16

2.2. Label elements



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

2.3. Other hazards

Not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Phosphoric acid based aqueous solution (concentration approx. 33%)

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

According to Regulation (EC) no. 1272/2008 [CLP].

Hazardous Ingredient(s)	%W/W	EC no.	CAS no.	Hazard Class	and	Hazard	statement
				Category Code(s)		Code (s)	
Phosphoric acid	33	231-633-2	7664-38-2	Skin Corrosion 1B		H314	
				Metallic Corrosion 1		H290	
				Eye Damage 1		H318	
				STOT SE 3		H335	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation IF INHALED: No harm anticipated from materials in quantities as packaged.

Skin contact IF ON SKIN (or hair): Rinse with water. Prolonged contact may destroy tissue. Seek medical attention



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in case of serious irritation or burns.

Eye contact IF IN EYES: Immediately rinse with copious amounts of water. Seek medical attention as soon as

possible.

Ingestion Corrosive to mouth and throat - Do not induce vomiting. Serve milk if available or solution of sodium

bicarbonate (baking soda).

4.2. Most important symptoms and effects, both acute and delayed

Causes skin irritation and burns. Prolonged contact may destroy tissue.

4.3. Indication of any immediate medical attention and special treatment needed

None necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing Media In case of fire, Water contact acceptable.

Unsuitable extinguishing Media None.

5.2. Special hazards arising from the substance or mixture

None in quantities as packaged. **5.3. Advice for firefighters**

Not required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact of skin or eyes. Wash hands with soap and water if skin contact occurs.

6.2. Environmental precautions

Dispose in DOT approved waste containers.

6.3. Methods and material for containment and cleaning up

Dilute with large amounts of water and dispose.

6.4. Reference to other sections

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid proximity of reactive metals and alkaline substances.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures not exceeding 30°C.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not applicable.

8.2. Exposure controls

Appropriate engineering controls

Do not eat, drink or smoke at the work place. The following information in given as general guidance.

Individual protection measures, such as personal protective equipment (PPE)

Protective Equipment Use latex gloves and protecting glasses.

Industrial Hygiene Avoid prolonged contact with skin; wash with soap and water.

Respiratory protection Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Gel.
Colour Green.
Odour Negligible.
pH: Approximately 1.
Melting point: Not applicable.
Boiling point Approximately 100°C.
Flash point Not applicable.

Flammability No.

Vapour pressure <101325 Pa (760 mm Hg) at 100°C.



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Vapour Density (Air=1) <1.

Auto ignition temperature Not applicable. Explosive limits in air Not applicable.

Oxidizing properties None.

Specific gravity (H2O=1) Approximately 1.2.
Reactivity in water Not reactive.
Solubility in Water Soluble.
Other data None.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactive metals, alkaline substances.

10.2. Chemical stability

Generally stable.

10.3. Possibility of hazardous reactions

Polymerization hazard: will not occur.

10.4. Conditions to avoid

Avoid temperatures above 30°C.

10.5. Incompatible materials

Reactive metals, alkaline substances.

10.6. Hazardous decomposition product(s)

Phosphoric acid vapors and phosphoric oxides, if exposed to extreme heat.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Potential Acute Health Effects Eye irritation upon contact. Skin irritation upon prolonged

exposure.

Signs and Symptoms of Exposure Skin/eye irritation.

Medical Conditions Generally Aggravated by Exposure None known.

Medical Conditions Generally Aggravated by Exposure
Carcinogenic or Potential Carcinogenic Effects

None known.

No ingredient listed as a carcinogen.

Other Potential Health Effects

None known.

Potential Chronic Health Effects Possibility of severe skin/eye damage upon prolonged or

repeated exposure.

SECTION 12: Ecological information

No ecological damage or impact anticipated upon exposure to the environment in quantities as packaged.

12.1. Toxicity

Not applicable.

12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Not applicable.

12.4. Mobility in soil

Not applicable.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

Dispose of in accordance with local and national regulations. In Italy dispose of according to Legislative Decree of April 3 2006 no. 152 "Regulations on environmental subject", application of European Directives on environmental protection, and subsequent modifications and integrations.

13.1. Waste treatment methods

Do not dispose into sink. Dispose of in accordance with all federal, state, and local regulations.

SECTION 14: Transport information

14.1. UN-number

UN1805.



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14.2. UN proper shipping name

Phosphoric Acid, Solution.

14.3. Transport hazard class(es)

8 Class **IMDG-Class** 8 **IMDG EMS** F-A,S-B **IATA** 3 ADR-Classification code C1 ADR HIN 80 ADR-Transport category 3 **Tunnel Restriction Code** Ε 3 RID (Transport category) AND (Transport category) 3

Leone current shipping mode (ADR): combination packaging total exemption.

14.4. Packing group

III.

14.5. Environmental hazards

Not classified as a Marine pollutant.

14.6. Special precautions for user

No special requirements.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Regulation (EC) no. 1272/2008 (Classification, labeling and packaging of substances and mixtures) and subsequent amendments, amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) no. 1907/2006.

Directive 2009/161/EU (third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC).

This product is CE marked in accordance with the essential safety and performance requirements of Annex I of the European regulation on medical devices.

15.2. Chemical safety assessment

Not applicable/not indicated.

SECTION 16: Other information

This Safety data sheet was prepared in accordance with the Commission Regulation (EU) no. 453/2010 and Commission Regulation (EU) no. 2015/830.

The safety data sheet has been written according to relevant European provisions, on the basis of information received by the supplier of the mixture.

The product is intended for orthodontic and odontological use only. The use of the product has to be restricted to skilled and licensed professionals. The information relates only to specific product designated and is not intended as a warranty of quality.

Leone disclaims any responsibility arising out of the use of the information here furnished, or of the handling, the application or the manufacture of the product here described. The final user is called to verify the application and completeness of the information herein in relationship to the specific use and reliability of the rules and local applicable dispositions.

The present information does not imply any liberty to break patent rights.

Previous safety data sheet no. F02/6E dated 29/05/2009 is to be considered obsolete. In comparison to the preceding revision, meaningful changes have not been effected but only adjustments to the European provisions which regulate the compilation of safety data sheet.

This safety data sheet is subject to revision. Visit our web site www.leone.it for an updated version of the present sheet.

Hazard statements

H290: May be corrosive to metals.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.



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Legend

ADR HIN: European Agreement concerning the International Carriage of Dangerous Goods by Road-Hazard Identification Number.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS No.: Chemical Abstract Service Registry number.

CDG: Carriage Of Dangerous Good.

EC No.: European Inventory of Existing Commercial Chemical Substances.

IATA: International Air Transport Association.

IBC Code: International Bulk Chemicals Code.

IMDG EMS: International Maritime Dangerous Goods-Emergency Response Procedures for Ships Carrying Dangerous Goods.

IMDG: International Maritime Dangerous Goods.

PBT: Persistent, Bioaccumulative And Toxic Substances.

RID: Regulations concerning the International rail trasport of goods Dangerous.

STOT SE: Specific Target Organ Toxicity-Single Exposure.

vPvB: Very Persistent And Very Bioaccumulative Substances.