



TruLock® Etchant Gel and Liquid

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

1.1. Product identifier

Product form : Mixture
Product name : Etching Gel or Liquid

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Dental etching solution

1.2.2. Uses advised against

Use of the substance/mixture : For professional use only

1.3. Details of the supplier of the safety data sheet

Manufacturer/Importer/Representative/User/Distributor: RMO 2165 Earlywood Drive Franklin, IN 46131 USA SRN #: US-MF-00003482 T 1 800 525 6735 customerservice@rmortho.com https://rmortho.com/	FDA Registration: According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations FDA Registration: 1718476
Australian Sponsor: AB Orthodontics PTY LTD 13/15 Collins St Melbourne VIC 3000 Australia T +61 3 9650 2526	EC Representative: RMO Europe 300 rue Geiler de Kaysersberg 67411 Illkirch Cedex France SRN #: FR_AR_000003900 T +33 3 88 40 67 40 https://www.rmoeurope.com/

1.4. Emergency telephone number

Emergency number : Chemtrec: 800-424-9300 (domestic); 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to Metals 1 H290
Skin Corrosion 1B H314

Adverse physicochemical, human health and environmental effects

No additional information available.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Contains :

No additional information available.

Hazard statements (CLP) :

H290 – May be corrosive to metals

H314 – Causes severe skin burns and eye damage

Precautionary statements (CLP) :

P264 - Wash thoroughly after handling

P280 – Wear protective gloves/protective clothing/eye protection/ face protection

P390 – Absorb spillage to prevent material damage. P303+P361+P353 - IF ON SKIN

(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P363 - Wash contaminated clothing before reuse.

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. P310 – Immediately call a POISON CENTER or

doctor/physician.

P321 – Specific treatment (see supplemental first aid instructions on this label).

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

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

P501 – Dispose of contents and container in accordance with local and national

regulations.

2.3. Other hazards

Under United States Regulations (29 CFR 1910.1200 – Hazard Communication Standard), this product is considered hazardous.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric Acid	CAS # 7664-38-2	35-39	EU DSD/DPD: Annex I: C; R34 EU CLP: Annex VI: Skin Corr. 1B, H314, Corr. To Metals 1, H290 OSHA HCS 2012: Skin Corr. 1B, H314, Corr. To Metals 1, H290
Water	CAS # 7732-18-5	40-70	Not classified

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Move victim to fresh air.
- First-aid measures after skin contact : For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.
- First-aid measures after ingestion : If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus. Wear impervious gloves while decontaminating skin and hair.

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

- Symptoms/effects after skin contact : Refer to Section 11
- Symptoms/effects after eye contact : Refer to Section 11

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Not combustible. Use extinguishing media suitable for surrounding fire.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Not combustible. Under fire conditions, toxic, corrosive fumes are emitted.

5.3. Advice for firefighters

- Protection during firefighting : General – Evacuate all personnel; use protective equipment for firefighting. Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Remove all ignition sources such as open flames, spark productin equipment, pilot lights, etc. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

6.1.2. For emergency responders

Protective equipment :



6.2. Environmental precautions

Prevent entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Exercise caution during neutralization as considerable heat may be generated. Neutralize spill area with soda ash, sodium bicarbonate or lime. Flush neutralized spill with copious amounts of water.

Other information : N/A

6.4. Reference to other sections

Refer to Section 8 and Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. This product reacts violently with bases liberating heat and causing spattering.

Hygiene measures : N/A

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from incompatible materials. Keep container closed to prevent contamination.

7.3. Specific end use(s)

Refer to Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Phosphoric Acid	CAS # 7664-38-2
STELs	3 mg/m ³
TWAs	1 mg/m ³
MAKs	Not established

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Ceilings 2 mg/m³ (Czech Republic)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear face shield and eye protection. An emergency eye wash must be readily accessible to the work area. Ensure safety shower is available near all areas of bulk storage, delivery and use.

8.2.2.2. Skin protection

Skin and body protection:

Wear protective clothing.

Hand protection:

Wear protective gloves selected with regard to both durability as well as permeation resistance.

8.2.2.3. Respiratory protection

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. Environmental exposure controls

Environmental exposure controls:

No additional information available.

Other information:

No additional information available.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Green or blue
Appearance	: Green or blue homogenous liquid
Odour	: None
Odour threshold	: No data
Melting point	: No data
Freezing point	: No data
Boiling point	: No data
Flammability	: No data
Lower explosion limit	: No data
Upper explosion limit	: No data
Flash point	: No data
Auto-ignition temperature	: No data
Decomposition temperature	: No data
pH	: 1-1.5
pH solution	: No data
Viscosity, kinematic	: No data
Solubility	: Partially soluble
Partition coefficient n-octanol/water (Log Kow)	: No data
Vapour pressure	: No data
Vapour pressure at 50°C	: No data
Density	: No data
Relative density	: 1.25-1.30 g/cc @ 25°C/77°F
Relative vapour density at 20°C	: No data
Particle size	: No data

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat, sparks, flames, and other sources of ignition.

10.5. Incompatible materials

High temperatures, visible light sources, strong oxidizing agents. Keep away from sunlight and open flames.

10.6. Hazardous decomposition products

Oxides of phosphorus.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: No data
Acute toxicity (dermal)	: No data
Acute toxicity (inhalation)	: No data
Chronic effects	: No chronic health effects reported.
Target organs	: No target organs reported.
Carcinogenicity	: Not classified
NTP	: No
IARC	: No

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No data
Hazardous to the aquatic environment, short-term (acute)	: No data
Hazardous to the aquatic environment, long-term (chronic)	: No data

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

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in accordance with all national and local regulations.
Ecology - waste materials	: Dispose in accordance with all national and local regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN1805

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14.2. UN proper shipping name

Phosphoric Acid Solution

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

AND

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

III

14.5. Environmental hazards

Dangerous for the environment : Not applicable

Marine pollutant : Not applicable

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Phosphoric acid Illinois chemical safety act: Phosphoric acid

New York release reporting list: Phosphoric acid

Rhode Island RTK hazardous substances: Phosphoric acid

Pennsylvania RTK: Phosphoric acid

Minnesota: Phosphoric acid

Massachusetts RTK: Phosphoric acid

Massachusetts spill list: Phosphoric acid

New Jersey: Phosphoric acid

New Jersey spill list: Phosphoric acid

Louisiana spill reporting: Phosphoric acid

California Director's list of hazardous substances: Phosphoric acid

SARA 302/304/311/312 extremely hazardous substances: Phosphoric Acid

SARA 313 toxic chemical notification and release reporting: Phosphoric Acid

CERCLA: Hazardous Substances: Phosphoric Acid, 5000lbs.

California Proposition 65: No

WHMIS Canada: Class E-corrosive liquid.

DSCL (EEC): R34 Causes burns.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
Footer	Supersedes: August 28, 2015	Date updated: 4/7/2021 Change Control Document #: DCN 4720, DCN 7998 Revision Summary: 4/7/2021 Corrected document number in footer.	Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

Full text of H- and EUH-statements:	
H290	May be corrosive to metals
H314	Causes severe burns and eye damage; Skin Corrosion 1B
Xi	Irritants

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Full text of H- and EUH-statements:

R34	Causes burns
S36	Wear suitable protective clothing
S37	Wear suitable gloves
S39	Wear eye/face protection

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.