



Reliance Orthodontic Products, Inc.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 1/17/2018 Version: 3

SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Product name	: Blue Gel Etchant	
1.2. Recommended use and restrictions		
Use of the substance/mixture	: For RX only	
1.3. Supplier		
Manufacturer Reliance Orthodontic Products, Inc. 1540 West T Itasca, IL 60143 USA 630-773-4009, during normal business hours www.relianceorthodontics.com	Fhorndale Ave.	
1.4. Emergency telephone number		
Emergency number	: CHEMTREC - 24-Hour Hazmat Emergency Communications Center Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or m	ixture	
GHS-US classification		
Skin corrosion/irritation H314 Category 1A	Causes severe skin burns and eye damage	
Full text of H statements : see section 16		
2.2. GHS Label elements, including prec GHS-US labeling	autionary statements	
Hazard pictograms (GHS-US)		
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage	
Precautionary statements (GHS-US)	 P260 - Do not breathe vapors P264 - Wash hands thoroughly after handling P280 - Wear eye protection, face protection, protective gloves 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. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER P321 - Specific treatment (see First aid measures on this label) P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose in a safe manner in accordance with local/national regulations 	
2.3. Other hazards which do not result in	n classification	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
SECTION 3: Composition/Informatio	n on ingredients	
3.1 Substances		

Not applicable

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3.2. **Mixtures**

Name	Product identifier	%	GHS-US classification
Phosphoric Acid, conc=85%	(CAS-No.) 7664-38-2	37.6 - 43.5	Skin Corr. 1B, H314 Eye Dam. 1, H318
Benzalkonium Chloride	(CAS-No.) 63449-41-2	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effe	ects (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and s	special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis	shing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the	chemical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containing	nent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric Acid, conc=85% (7664-38-2)

Not applicable

Benzalkonium Chloride (63449-41-2)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls

Environmental exposure controls

: Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

al properties
nd chemical properties
: Liquid
: Semi Gel.
: Blue / Green
: Odorless
: No data available
: <1
: < 0 °C
: No data available
: > 100 °C
: No data available
: No data available
: Not applicable.
: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

Benzalkonium Chloride (63449-41-2)	
LD50 oral rat	600 mg/kg (Rat; Literature study)
LD50 dermal rat	1560 mg/kg (Rat; Literature study)
ATE US (oral)	600 mg/kg body weight
ATE US (dermal)	1560 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: < 1
Serious eye damage/irritation	: Not classified
	pH: < 1
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	Burns.Serious damage to eyes.Burns.

SECTION 12: Ecological information		
2.1. Toxicity		
cology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.	
Phosphoric Acid, conc=85% (7664-38-2)		
LC50 fish 1	138 mg/l (LC50)	
Benzalkonium Chloride (63449-41-2)		
LC50 fish 1	0.85 mg/l (LC50; 96 h)	
EC50 Daphnia 1	0.016 mg/l (EC50; 48 h)	
Threshold limit algae 1	0.02 mg/l (EC50; 72 h)	

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2.2. Persistence and degradability	
Phosphoric Acid, conc=85% (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
2.3. Bioaccumulative potential	
Phosphoric Acid, conc=85% (7664-38-2)	Net bioggourgulative
Bioaccumulative potential	Not bioaccumulative.
2.4. Mobility in soil	
o additional information available	
2.5. Other adverse effects	
ffect on the global warming	: No known effects from this product.
WPmix comment	: No known effects from this product.
SECTION 13: Disposal consideration	S
3.1. Disposal methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
ECTION 14: Transport information	
epartment of Transportation (DOT)	
accordance with DOT	
ansport document description	: UN1805 Phosphoric acid solution, 8, III
N-No.(DOT)	: UN1805
roper Shipping Name (DOT)	: Phosphoric acid solution
ass (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
acking group (DOT)	: III - Minor Danger
azard labels (DOT)	: 8 - Corrosive
	CORROSIVE
OT Packaging Non Bulk (49 CFR 173.xxx)	: 203
OT Packaging Bulk (49 CFR 173.xxx)	: 241
OT Special Provisions (49 CFR 172.102)	 A7 - Steel packaging must be corrosion-resistant or have protection against corrosion. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal
OT Bookaging Exapplians (40 CED 172 mm)	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
OT Packaging Exceptions (49 CFR 173.xxx) OT Quantity Limitations Passenger aircraft/rail	: 154 : 5 L
49 CFR 173.27) OT Quantity Limitations Cargo aircraft only (49	: 60 L
FR 175.75)	
OT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel. : No supplementary information available.
Other information	

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TDG	
Transport document description	: UN1805 PHOSPHORIC ACID, LIQUID (PHOSPHORIC ACID, LIQUID), 8, III
UN-No. (TDG)	: UN1805
Proper Shipping Name (TDG)	: PHOSPHORIC ACID, LIQUID
TDG Primary Hazard Classes	: 8 - Class 8 - Corrosives
Packing group	: III - Minor Danger
Explosive Limit and Limited Quantity Index	: 5
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5

Transport by sea

Air transport

Transport document description (IATA)	: UN 1805 , 8
UN-No. (IATA)	: 1805
Class (IATA)	: 8 - Corrosives

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
15.2. International regulations
CANADA No additional information available
EU-Regulations No additional information available
National regulations No additional information available
15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H400	Very toxic to aquatic life	

SDS US (GHS HazCom 2012)

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.