

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 3/15/2024 Version: 1.1

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Product form : Mixture Product name : Blue High Viscosity Gel Etching Agent with BAC 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 : For Rx Only 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Manufacturer/Importer/Representative/User/Distributor: **U.S. Federal Register:** Reliance Orthodontic Products, Inc. According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 1540 W. Thorndale Ave / Rules and Regulations Itasca, IL 60143 USA FDA Registration: 1420089 T 630-773-4009, during normal business hours regulatory@relianceorthodontics.com www.RelianceOrthodontics.com Australian Sponsor: EC Representative: Emergo Australia, 201 Sussex St. Emergo Europe Darling Park, Tower II, Level 20 Westervoortsedijk 60 Sydney, NSW 2000 Australia 6827 AT Arnhem T +61 2 9006 1662 The Netherlands T +31 70 345 8570 Switzerland Representative: U.K. Person Responsible: MedEnvoy Global BV Emergo Consulting (UK) Limited Leidschendam-Voorburg, Zug Branch Office c/o Cr360 - UL International Compass House, Vision Park Histon Cambridge CB24 9BZ Gotthardstrasse 28, 6302 Zug, Switzerland T +41 41 462 01 42 England, United Kingdom T +44(0) 1223 772 671 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: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1 Full text of H- and EUH-statements: see section 16 H314

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)

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	GHS05
Signal word (CLP)	: Danger
Contains	: Benzalkonium Chloride
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P260 - Do not breathe fume, mist, vapours.
	P264 - Wash hands thoroughly after handling.
	P280 - Wear protective gloves, protective clothing, eye protection.
	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 or 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 POISON CENTER, a doctor.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P501 - Dispose of contents and container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation, a licensed
	hazardous-waste disposal contractor or collection site except for empty clean containers
	which can be disposed of as non-hazardous waste.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Phosphoric Acid, conc=85% (7664-38-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Benzalkonium Chloride (63449-41-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 %

Component		
Phosphoric Acid, conc=85%(7664-38-2)	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, conc=85%	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6	30 - 45	Skin Corr. 1, H314
Benzalkonium Chloride	CAS-No.: 63449-41-2 EC-No.: 264-151-6 EC Index-No.: 612-140-00-5	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10)

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Phosphoric Acid, conc=85%	EC-No.: 231-633-2	(10 ≤ C < 25) Skin Irrit. 2, H315 (10 ≤ C < 25) Eye Irrit. 2, H319 (25 ≤ C < 100) Skin Corr. 1B, H314

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	: Burns. : Serious damage to eyes. : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equip	nent and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe fume, mist, vapours.	
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.

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6.3. Methods and material for containment and cleaning up	
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
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 fume, mist, vapours. 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.	
7.2. Conditions for safe storage, i	ncluding any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
7.3. Specific end use(s)		

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

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#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Appearance	: Semi Gel.
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: <0°C
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: <1
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 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

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

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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 hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified	
Phosphoric Acid, conc=85% (7664-38-2)		
LD50 oral rat	3500 mg/kg Source: ECHA	
LD50 dermal rabbit	2740 mg/kg Source: ECHA	
Benzalkonium Chloride (63449-41-2)		
LD50 oral	150 mg/kg bodyweight (Mouse, Literature study, Oral)	
LD50 dermal rat	1420 mg/kg Source: Registry of Toxic Effects of Chemical Substances	
Skin corrosion/irritation :	Causes severe skin burns. pH: < 1	
Phosphoric Acid, conc=85% (7664-38-2)		
pН	0 - 0.5 (20 °C)	
Benzalkonium Chloride (63449-41-2)		
рН	5 - 6 Source: GESTIS	
Serious eye damage/irritation :	Assumed to cause serious eye damage pH: < 1	
Phosphoric Acid, conc=85% (7664-38-2)		
pН	0 - 0.5 (20 °C)	
Benzalkonium Chloride (63449-41-2)		
рН	5 - 6 Source: GESTIS	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	

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## 11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general : Hazardous to the aquatic environment, short-term :	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified	
(acute)	Not classified	
Phosphoric Acid, conc=85% (7664-38-2)		
LC50 - Fish [1]	138 mg/l (Pisces, Pure substance)	
EC50 - Crustacea [1]	100 mg/l Source: ECHA	
EC50 72h - Algae [1]	> 100 mg/l Source: ECHA	
Benzalkonium Chloride (63449-41-2)		
LC50 - Fish [1]	0.31 mg/l	
LC50 - Fish [2]	0.31 mg/l (96 h, Lepomis macrochirus)	
EC50 - Crustacea [1]	0.016 mg/l (48 h, Daphnia magna)	
EC50 72h - Algae [1]	0.02 mg/l (Selenastrum capricornutum)	
12.2. Persistence and degradability		
Phosphoric Acid, conc=85% (7664-38-2)		
Persistence and degradability Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable	
ThOD Not applicable		
BOD (% of ThOD) Not applicable		
Benzalkonium Chloride (63449-41-2)		
Persistence and degradability	Biodegradability in water: no data available.	
12.3. Bioaccumulative potential		
Phosphoric Acid, conc=85% (7664-38-2)		
Bioaccumulative potential	No test data of component(s) available.	
Benzalkonium Chloride (63449-41-2)		
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil		
Phosphoric Acid, conc=85% (7664-38-2)		
Ecology - soil	Highly mobile in soil.	
Benzalkonium Chloride (63449-41-2)		
Ecology - soil	No (test)data on mobility of the substance available.	

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Component	
Phosphoric Acid, conc=85% (7664-38-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XII
Benzalkonium Chloride (63449-41-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Endocrine disrupting properties	
lo additional information available	
12.7. Other adverse effects	
No additional information available	

13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

### **SECTION 14: Transport information**

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

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	<ul> <li>UN 1805</li> <li>UN 1805</li> <li>Not regulated</li> <li>UN 1805</li> <li>Not regulated</li> </ul>
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (ADN)	<ul> <li>PHOSPHORIC ACID, SOLUTION</li> <li>PHOSPHORIC ACID SOLUTION</li> <li>Not regulated</li> <li>PHOSPHORIC ACID, SOLUTION</li> <li>Not regulated</li> <li>UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)</li> <li>UN 1805 PHOSPHORIC ACID SOLUTION, 8, III</li> <li>UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III</li> </ul>

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



: 8 : 8

#### IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	

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IATA Transport hazard class(es) (IATA)	: Not regulated
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 8 : 8 :
RID Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : Not regulated : III : Not regulated
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Packages (ADR)	: TP1 : L4BN : AT : 3 : V12
Hazard identification number (Kemler No.) Orange plates	: 80 : <b>80</b>
Tunnel restriction code (ADR)	<b>1805</b>
Tunnel restriction code (ADR) <b>Transport by sea</b> Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)	

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EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Segregation (IMDG) Properties and observations (IMDG)	<ul> <li>F-A</li> <li>S-B</li> <li>A</li> <li>SGG1, SG36, SG49</li> <li>Miscible in water. Mildly corrosive to most metals.</li> </ul>
Air transport Not regulated	
Inland waterway transport Classification code (ADN) Limited quantities (ADN)	: C1 : 5L

Excepted quantities (ADN): E1Carriage permitted (ADN): TEquipment required (ADN): PP, EPNumber of blue cones/lights (ADN): 0

### 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

#### **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

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information			
Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Added	
	Supersedes version of	Added	
	Issue date	Removed	
1.3	Display additional SDS EU addresses	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
6.1	Emergency procedures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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.