HENRY SCHEIN"

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/12/2014 Date of issue: 02/12/2014

Version: 1.0

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

1.1. Product identifier

Product form Product name Synonyms :Mixture :Etch Gel

: Etchant Gel Blue, Phosphoric Acid Solution

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

Use of the substance/mixture : For Professional Dental Use

1.3. Details of the supplier of the safety data sheet

Company

Henry Schein, Inc. 135 Duryea Road Melville, NY 11747 Telephone: 1-800-424-9300

www.henryschein.com

1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US) Met. Corr. 1 H290 Skin Corr. 1B H314 Eye Dam. 1 H318

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

	GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H290 - May be corrosive to metals
	H314 - Causes severe skin burns and eye damage
	H318 - Causes serious eye damage
Precautionary statements (GHS-US)	: P234 - Keep only in original container.
	P260 - Do not breathe spray, vapors, fume, dust.
	P264 - Wash hands and forearms thoroughly after handling.
	P280 - Wear eye protection, protective gloves.
	P301+P330+P331 - 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.
	P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a
	position 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 or doctor/physician.
	P321 - Specific treatment (see Section 4).
	P363 - Wash contaminated clothing before reuse.
	P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner. P501 - Dispose of contents/container according to local, regional, national, and international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Phosphoric acid	(CAS No) 7664-38-2	30 - 55	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Skin Corr. 1B, H314
			Eye Dam. 1, H318

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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First-aid measures general	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	 If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove contaminated clothing. Immediately rinse with plenty of water for at least 60 minutes. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
4.2. Most important symptoms	and effects, both acute and delayed
Symptoms/injuries	: Corrosive. Causes burns.
Symptoms/injuries after inhalation	: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.
Symptoms/injuries after skin contact	 Prolonged skin contact may result in severe irritation leading to chemical burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Ingestion is likely to be harmful or have adverse effects.
4.3. Indication of any immediat	e medical attention and special treatment needed
If medical advice is needed, have prod	luct container or label at hand.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture	
Fire hazard	: If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Oxides of phosphorus.
Explosion hazard	: Product is not explosive.
Reactivity	: Stable at ambient temperature and under normal conditions of use.

EN (English US)

Safety Data Sheet

Etch Gel

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Advice for firefighters	5
Firefighting instructions	: Do not breathe fumes from fires or vapours from decomposition. All fire- fighting personnel must wear safety suits.
Protection during firefighting	: Use normal individual fire protective equipment. Use self-contained breathing apparatus when fighting fire in an enclosed area.
SECTION 6: Accidental re	elease measures
6.1. Personal precautions,	, protective equipment and emergency procedures
General measures	: Do not get in eyes, on skin, or on clothing.
6.1.1. For non-emergency per	sonnel
Protective equipment	 During cleaning/processing wear suitable respiratory equipment. Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Evacuate unnecessary personnel. Ventilate area.
6.1.2. For emergency respond	lers
Protective equipment	 Wear suitable protective clothing, gloves and eye/face protection. Collect absorbed material and place into a sealed, labelled container for proper disposal.
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.
6.2. Environmental precau	utions
	absorbents to prevent migration and entry into sewers or streams.
6.3. Methods and materia	I for containment and cleaning up
For containment	: Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up	: Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.
6.4. Reference to other se	ctions
See heading 8, Exposure Contro	ls and Personal Protection.
SECTION 7: Handling and	
7.1. Precautions for safe h	
Hygiene measures	 Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and onc again before leaving the workplace. Do not eat, drink or smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in original container. Store in a dry, cool place.
Storage area	: Store away from heat.
Special rules on packaging	: Keep container closed when not in use.
7.3. Specific end use(s)	
For Professional Dental Use	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
Phosphoric acid (7664-38-2)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
USA ACGIH	ACGIH STEL (mg/m ³)	3 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
Silica, amorphous, fumed, crystalline-free (112945-52-5)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m ³ /%SiO ₂)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	: Insufficient ventilation: wear respiratory protection. Protective goggles.
	Gloves.
Materials for protective clothing	: Butyl-rubber protective gloves.
Hand protection	: Impermeable protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection.
SECTION 9: Physical and cher	nical properties
	cal and chemical properties
Physical state	: Liquid
Appearance	: Dark. gel.
Color	: Blue.
Odor	: No data available
Odor threshold	: No data available
рН	: 1.7 - 2
Relative evaporation rate (butyl aceta	ate=1) : No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition Temperature	: Not available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific Gravity	: No data available
Density	: > 1 g/cc
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2 Other information	

9.2. Other information

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.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Prolonged contact with metals.

10.5. Incompatible materials

Metal. Bases. Oxidizers.

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Oxides of phosphorus.

: Not classified

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Phosphoric acid (7664-38-2)		
LD50 oral rat	1530 mg/kg	
LD50 dermal rabbit	2730 mg/kg	
LC50 inhalation rat (mg/l)	> 850 mg/m ³ (Exposure time: 1 h)	
ATE (oral)	1530.000 mg/kg body weight	
ATE (dermal)	2730.000 mg/kg body weight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 1.7 - 2	
Serious eye damage/irritation	: Causes serious eye damage. pH: 1.7 - 2	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

Silica, amorphous, fumed, crystalline-free (112945-52-5)

IARC group	3
Reproductive toxicity	: Not classified
Specific target organ toxicity (single ex	posure) : Not classified
Specific target organ toxicity (repeated	exposure) : Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.
Symptoms/injuries after skin contact	: Prolonged skin contact may result in severe irritation leading to chemical burns.
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	: Causes serious eye damage. : Ingestion is likely to be harmful or have adverse effects.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Waste treatment methods Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose of waste material in accordance with all local, regional, national, and international regulations.
SECTION 14: Transport inform	nation
In accordance with DOT / IMDG / IATA	
14.1. UN number	
UN-No.(DOT)	: 1805
DOT NA no.	UN1805
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Phosphoric Acid Solution
Department of Transportation (DOT) Hazard Classes	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: III - Minor Danger
DOT 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, 31HN2, 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
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling $= 0.7 / (1 + 2) / (1 + $
	determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the
	temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173 DOT Packaging Non Bulk (49 CFR 173.) DOT Packaging Bulk (49 CFR 173.xxx) 14.3. Additional information	3.xxx) : 154
Emergency Response Guide (ERG) Nur	nber : 154
Transport by sea DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 154
Air transport DOT Quantity Limitations Passenger a DOT Quantity Limitations Cargo aircra	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Etch Gel

SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard

Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

Phosphoric acid (7664-38-2)

- U.S. Massachusetts Allowable Ambient Limits (AALs)
- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Revision date

: 02/12/2014

Other information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

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.

SDS US (GHS HazCom 2012)