JOY ETCHANT GEL

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Section 1 – Identification

Product Name: JOY Etchant Gels 37% Phosphoric

Acid (Blue or Green)

Active Ingredient: Phosphoric Acid

Manufacturer: 3D DENTAL.

16781 Chagrin Blvd Suite 434

Shaker Heights, OH 44120

Information Contacts: (877)605-8061

Emergency Phone Numbers: US & Canada 1 (800)424-9300

Family: Etching Gels

Product Use: Professional Dental Etching Gel

Product #: Various

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

Corrosive! - H314

Causes tissue destruction, permanent damage to the cornea, blindness.

Mists may cause lung irritation, shortness of breath.

Ingestion may cause nausea, vomiting, diarrhea, burns to the mouth, chest pain

Seizures, shortness of breath, even death.

Please read entire MSDS for additional information.





Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Inhalation, skin, and ingestion.

Eye Corrosive. May cause redness, pain, blurred vision, eye burns, and permanent eye damage.

Skin Corrosive. May cause redness, pain, and severe skin burns.

Ingestion Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and

stomach.

Inhalation Inhalation is not an expected hazard unless mist is heated to high temperatures. Mist or vapor

inhalation can cause irritation to the nose, throat, and upper respiratory tract. Severe exposures can lead

to a chemical pneumonitis.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure OSHA	Limits ACGIH	Carcinogen	%
				TWA/STEL	TWA/STEL	IARC/NTP/OSHA	
Phosphoric Acid	7664-38-2	231-633-2	Phosphoric Acid	TWA = 1 mg/s	m^3 TWA = 1 mg/	m^3 Not listed	32-44
					$STEL = 3 \text{ mg/ m}^{\wedge}$	3	

N/E – None Established N/R N/DA – No Data Available – Not Reviewed N/A – Not Applicable

May contain the

following: FD&C Blue, D&C Violet #2,

(items in parenthesis relate to 1999/45/EC)

Phosphoric Acid: Danger Symbol – GHS05 (C) Hazard Statemen

Hazard Statement – H314 (R34) Precautionary Statement – P102 (S1/2), P305+334 (S26),

P309+314 (S45)

See Section 16 for Hazard and Precautionary Statement Key.

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Section 4 – First Aid Measures

First Aid for Eye Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek

immediate medical attention. If it is necessary to transport the patient to a physician and the eye needs

to be a bandaged, use a dry sterile cloth pad and cover both eyes.

First Aid for Skin Immediately wipe excess material from skin with a dry cloth; then wash skin with plenty of soap and

water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes while

washing.

If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. Seek First Aid for Ingestion

immediate medical attention. To prevent aspiration of swallowed product, lay victim on side with

head lower than waist. Vomiting may occur spontaneously.

First Aid for Inhalation Remove victim from immediate source of exposure and assure that the victim is still breathing. If

breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. Seek

medical help.

Section 5 – Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
N/A	N/A	N/A

Method:

Extinguishing Media: Not combustible. Use extinguishing method suitable for surrounding fire.

Fire Fighting Firefighters should wear NIOSH/MSHA approved self contained breathing apparatus and full **Instructions:** protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate

residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources.

Unusual Hazards: Evacuate all personnel.

Section 6 – Accidental Release Measures

Spill or Release Procedures

Minor spills – Clean up immediately, avoid contact with skin and eyes. Mop / wipe area and clean with soapy water Dike or

retain dilution water for disposal.

Major spills - Clear area of personnel. Restrict access to area. Avoid contact with skin and eyes, and dilute area with soapy water. Collect contaminated water and dispose of properly. Dike or retain dilution water for disposal. Large spills should

be handled according to a predetermined plan.

See section 8 & section 12.

Section 7 – Handling and Storage

Handling Limit all unnecessary personal contact. Avoid breathing vapors. Wear appropriate PPE. Do not get into eyes or

on skin. Avoid breathing vapors and mists. This product reacts with bases liberating heat and causing

spattering.

Storage Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use.

Keep in original container provided by manufacturer.

Explosion Hazard

Section 8 – Exposure Controls / Personal Protection

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Engineering General exhaust is adequate under normal operating conditions; however local exhaust ventilation at the point

Controls of generation is preferred. Personal hygiene is an important work exposure control measure.

Personal Protective Equipment

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment

in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted

before using this product.

Eye/ Face Safety glasses / goggles or splash shields are required when handling. Ensure eye bath is on hand.

Protection

Skin Protection Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole

body suit

Respiratory In case of insufficient ventilation, wear suitable respiratory equipment.

Protection

Section 9 – Physical and Chemical Properties

Appeara Gel	Odor & Odor Threshold Odor of Stated Flavor					Viscosity N/A		olatile I/A	
Boiling Point/ Freezing Point	Decomposit Temperati		Octanol/Water Partitioning Coeffici Log Po/w	1	apor ssure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
N/A	N/DA		N/DA	1	V/A	N/A	N/A	N/A	N/A

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
N/A	N/A	N/A

Section 10 – Stability and Reactivity

Stability: Incompatibility (Materials to Avoid):

Stable under normal conditions Bases, metals, strong oxidizing or reducing agents Hazardous

Decomposition Products: Hazardous Polymerization: Oxides of Phsophorus Will not occur

Conditions to Avoid: Heat and incompatible materials

Section 11 – Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation – skin	Irritation – Eye
N/DA	N/DA	N/DA	N/DA	N/ DA

Sensitization	Mutagenicity	Sub-chronic Toxicity
N/ DA	N/DA	N/ DA

Section 12 – Ecological Information

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Ecotoxicological Information

Acute Toxicity to	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to
Fish				Sewage Bacteria
N/DA	N/ DA	N/ DA	N/ DA	N/ DA

Chemical Fate Information

Biodegradability	N/DA. This material is not expected to significantly bio-accumulate.
Chemical Oxygen Demand	N/ DA

Section 13 – Disposal Considerations

Dispose of in compliance with governmental regulation (state and federal).

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14 – Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	UN1805, Phosphoric Acid Solution, 8, III
Identification Number:	UN1805
Marine Pollutant:	No
Special Provisions:	A7, IB3, N34, T4, TP1
Emergency Response Guidebook (ERG) #:	154
IATA (DGR):	
Proper Shipping Name:	UN1805, Phosphoric Acid Solution, 8, III
Class or Division:	8
UN or ID Number:	UN1805
Packaging Instructions:	III
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	UN1805, Phosphoric Acid Solution, 8, III
Class or Division:	8
UN or ID Number:	UN1805
Special Provisions & Stowage/Segregation:	N/A
Emergency Schedule (EmS)#:	N/A
Other Information:	This product can qualify as a consumer commodity (limited quantity exception)

Section 15 – Regulatory Information

US Federal Regulations

CD I cuci ai regulations	
Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS:
	NONE
Clean Water Act: Priority	This product contains the following chemicals listed under the U. S. Clean Water Act Priority
Pollutant	Pollutant and Hazardous Substance List:

Safety Data Sheet	JOY ETCHANT GEL	Page 5 of 5
	None	
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packagin applications as an indirect food-packaging additive.	ng and / or other
Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Con It's hazards are:	mmunication Standard.
	Phosphoric Acid CAS # 7664-38-2 (Corrosive)	
RCRA	This product contains the following chemicals considered to be had under RCRA (40 CFR 261). None	zardous waste
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as ext substances.	tremely hazardous
SARA Title III: Section 302 (TPQ)	This product contains chemicals regulated under Section 304 as chemicals for emergency release notification ("CERCLA" List):	extremely hazardous
	Phosphoric Acid CAS #7664-38-2 (Corrosive) – RQ 5000#	
SARA Title III: Section 311-312:	This product is considered to be hazardous under the OSHA Hazard C Standard and is regulated under Section 311-312 (40 CFR 370). It's ha	
	Phosphoric Acid CAS #7664-38-2 (Corrosive)	
SARA Title III: Section 313:	This product contains the following chemicals which are subject to the requirements of Section 313 of Title III of the Superfund Amendments Act of 1986 and 40 CFR Part 372:	
	None	
TSCA Section 8(b): Inventory:	This product does contain chemicals listed on the TSCA inventory or with TSCA pre-manufacture notification requirements.	otherwise complies
TSCA Significant New Use Rule:	Phosphoric Acid CAS #7664-38-2 None of the chemicals in this material have a SNUR under TSCA.	
State Regulations		
CA Right-to-Know Law: California No Significant Risk	None	
Rule:	None	
MA Right-to-Know Law:	Phosphoric Acid CAS # 7664-38-2	
NJ Right-to-Know Law:	Phosphoric Acid CAS # 7664-38-2	
PA Right-to-Know Law:	Phosphoric Acid CAS # 7664-38-2	
FL Right-to-Know Law:	None	
MN Right-to-Know Law:	Phosphoric Acid CAS # 7664-38-2	
International Regulations	D	
CDSL: Canadian Inventory (on Canadian Transitional List)	Phosphoric Acid CAS # 7664-38-2	
	1272/2008 {CLP} AND 1999/45/EC (items in parenthesis relate to 1999	9/45/EC)
European Community:	For Jade Etchant Gel (finished product): DANGER SYMBOLS: GHS05 (C) – Corrosive	
	HAZARD STATEMENT: H314 (R34), Causes severe skin burns	and eye damage.



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PRECAUTIONARY STATEMENT: **P102** (**S2**), Keep out of reach of children. **P210** (**S15**), Keep away from heat/sparks/open flames/hot surfaces. **P260** (**S23**), Do not breathe dust/fume/gas/mist/vapors/spray. **P280** (**S36/37/39**), Wear protective gloves/clothing/eye protection/face protection. **P309+314** (**S45**), If exposed or you feel unwell, get medical advice/attention. **P405** (**S1**), Store locked up. **P501** (**S56**), Dispose of contents/ container in appropriate way.

Section 16 – Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

(items in parenthesis relate to 1999/45/EC)

Danger Symbols:

GHS05 (C) - Corrosive

Hazard Statement: H314 (R34), Causes severe skin burns and eye damage.

Precautionary Statement: P102 (S1 or S2), Keep out of reach of children. P210 (S15), Keep away from heat/sparks/open flames/hot surfaces. P260 (S23), Do not breathe dust/fume/gas/mist/vapors/spray. P261 (S24), Avoid breathing dust/fume/gas mist/vapor sprays. P280 (S36/37/39), Wear protective gloves/clothing/eye protection/face protection. P305+334 (S26), In case of contact with eyes, rinse immediately with water. P309+314 (S45), If exposed or you feel unwell, get medical advice/attention. P404 (S7), Store in a closed container. P403+235 (S3/9), Store in a well ventilated place. Keep cool. P405 (S1), Store locked up. P501 (S56), Dispose of contents/ container in appropriate way.

Hazard Rating System (Pictograms)

NFPA:

HMIS:

3	Health
6	Flammability
7	Reactivity
2	Reactivity
8	Reactivity
1	Reactivity
1	Reactivity
2	Reactivity
3	Health
4	Reactivity
5	Reactivity
6	Reactivity
7	Reactivity
8	Reactivity
9	Reactivity
1	Re

MSDS Prepared by:	Ricardo Carles
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