


1. Identification

Product Identifier	35% Phosphoric Acid Dental Etch Gel
Other Means of identification	Not available
Recommended use	Enamel etchant, Rx only
Recommended restrictions	None known.
Manufactured for / Supplied by	maxill inc. 80 Elm Street St. Thomas, ON N5R 6C8 CA Phone: 519-631-7370 Fax: 519-531-3388 Website: maxill.com
Emergency Response Number	ChemTel: 1-800-255-3924, outside US and Canada, 1-813-248-0585 CANUTEC: 1-888-CAN-UTEC (226-8832)

2. Hazard identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion	Category 1B
	Serious eye damage	Category 1
	Acute toxicity, Dermal	Category 5
	Acute toxicity, Oral	Category 4
Environmental hazards	Not classified	
WHMIS 2015 defined hazards	Not classified	
Label elements		
Signal word	Danger	
Hazard statements	May be corrosive to metals.	
	Harmful if swallowed.	
	May be harmful in contact with skin.	
	Causes severe skin burns and eye damage.	
Precautionary statement		
Prevention	Keep only in original container. Do not breathe dusts or mists. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.	

Response	<p>IF SWALLOWED: Rinse mouth. Do not induce vomiting.</p> <p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Immediately call a POISON CENTER/doctor/physician.</p> <p>Wash contaminated clothing before reuse.</p> <p>Avoid spillage to prevent material damage.</p>
Storage	<p>Store locked up.</p> <p>Store in corrosive resistant container with a resistant liner.</p>
Disposal	<p>Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known.
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixture

Chemical Name	CAS number	% w/w
Phosphoric acid	7664-38-2	30 – 60

4. First-aid measures

Inhalation	<p>Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.</p>
Skin Contact	<p>Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.</p>
Eye Contact	<p>Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.</p>
Ingestion	<p>Do not induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.</p>
Most important symptoms/effects, acute and delayed	<p>Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.</p>
General information	<p>If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Keep out of reach of children.</p>

5. Fire-fighting measures

Suitable extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Emits toxic fumes (phosphorus oxides) under fire conditions. (See also Stability and Reactivity section).
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to:

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Methods and materials for containment and cleaning up	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

7. Handling and storage

Precautions for safe handling	See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.
Conditions for safe storage, including any incompatibilities	Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. Exposure controls/personal protection

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Phosphoric acid	1 mg/m ³	TLV	ACGIH
	3 mg/m ³	STEL	ACGIH
	1 mg/m ³	PEL	OSHA
	1 mg/m ³	REL	NIOSH
	3 mg/m ³	STEL	NIOSH
	1000 mg/m ³	IDLH	OSHA

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. Physical and chemical properties and safety characteristics

Appearance	Clear
Physical state	Liquid
Form	Gel
Color	Green
Odor	Nearly odorless
Odor threshold	Not available.
pH	2.0 @ 1% solution
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	20000 cps
Other information	
Density	1.24 @ 25C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Possibility of hazardous reactions	Will not occur.
Chemical stability	Stable
Conditions to avoid	Not available.
Incompatible materials	Strong bases, powdered metals.
Hazardous decomposition products	Phosphorus oxides.

11. Toxicological information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion	
Information on likely routes of exposure		
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes severe skin burns.	
Eye contact	Causes serious eye damage.	
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Symptoms may include burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea.	
Information on toxicological effects		
Acute toxicity		
Phosphoric acid	Skin Eyes Respiratory Ingestion	LD50 - Rabbit - 2,740 mg/kg Not Available Not Available LD50 - Rat - 1,530 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Mutagenicity	Not available.	
Carcinogenicity	See below.	
IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	

NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Not available.
Teratogenicity	Not available.
Specific target organ toxicity	Blood, skin, liver, eyes, bone marrow
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Damage to organs.



12. Ecological information

Ecotoxicity	See below	
Ecotoxicological data		
Components		
Phosphoric Acid	Aquatic Vertebrate	Not Available
	Aquatic Invertebrate	Not Available
	Terrestrial	Not Available
Persistence and degradability	Not available.	
Bioaccumulative potential	Not available.	
Mobility in soil	Not available.	
Mobility in general	Not available.	
Other adverse effects	Not available.	

13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.
US DOT	UN1805, Phosphoric acid solution, Class 8, P.G. III 
TDG	UN1805, PHOSPHORIC ACID SOLUTION, Class 8, P.G. III 
IMDG	UN1805, Phosphoric acid solution, Class 8, P.G. III
Marine Pollutant	No
IATA/CAO	UN1805, Phosphoric acid solution, Class 8, P.G. III

15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Exempt - Registered product - Medical Device

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Exempt

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

DSL Inventory Status

All ingredients are listed on the DSL inventory.

TSCA Inventory Status

All ingredients are listed on the TSCA inventory.

DSCL (EEC)

All ingredients are listed on the DSCL inventory.

California Proposition 65

Not Listed

SARA 302

Not Listed

SARA 304

Not Listed

SARA 311

Acute health hazard, Chronic health hazard.

SARA 312

Acute health hazard, Chronic health hazard.

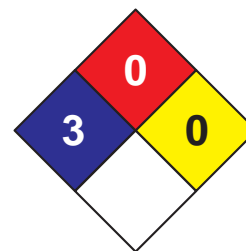
SARA 313

Not Listed

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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2021-04-27

Version

02

Effective date

2021-04-27

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.