

Maestro

Power Etch™

MSDS - ARTG ID 128150

SECTION I – PRODUCT/MANUFACTURER INFORMATION

1.1	Product Trade Name	Power Etch™ 37%wt Phosphoric Acid Gel
1.2	Manufacturer's Name & Address	Maestro Dental & Cosmetics Pty Ltd, 2/18-20 Redland Drive Mitcham Vic 3132 Australia
1.3	Website	www.maestrodental.com.au
1.4	Emergency Telephone Number	+61 (0)425 789 333
1.5	Information Telephone Number	+61 (0)3 9874 3993
1.6	Date Prepared	18/07/2007

SECTION II – HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

2.1	H ₃ PO ₄ (CAS No 7664-38-2)	w/w 37% OSHA PEL NE	ACGIH TLV Phosphoric Acid NE
2.2	For 85% Phosphoric Acid Oral	Rat LD50 = 1530mg/kgs skin,	Rabbit LD50 = 2740mg/kg

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

3.1	Boiling Point (85% wt/wt)	158 °C
3.2	Melting Point (85% wt/wt)	42.35 °C
3.3	Vapour Density (Air = 1)	3.4
3.4	Vapour Pressure	2 kPa @ 20 °C
3.5	Form/Colour/Odour	Clear, colourless liquid with no odour
3.6	Solubility	Complete in water
3.7	Density/Specific Gravity (85% Phosphoric Acid)	1.6885
3.8	pH	1.5 (0.1N Solution)

SECTION IV – FIRE AND EXPLOSION HAZARDS

4.1	Extinguishing Media	Water spray, dry chemical carbon dioxide, chemical foam.
4.2	Special Fire fighting Procedures/Equipment	Wear self-contained breathing apparatus to prevent contact with thermal decomposition products.

SECTION V – REACTIVITY DATA

5.1	General Reactivity	Stable
5.2	Conditions to avoid (stability)	Incompatible materials, metals, excess heat
5.3	Incompatibility (materials to avoid)	Reacts with Alkalies to form phosphates. Corrosive when hot to many metals and alloys.
5.4	Hazardous Decomposition or by Products	Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, it may form phosphine and oxides phosphorous.
5.5	Hazardous Polymerization	May occur.

SECTION VI – HEALTH HAZARD

6.1	Route (s) of entry	Inhalation, skin, ingestion, eye.
6.2	Health Hazards (Acute & Chronic) – Skin or Eyes:	Contact may cause severe irritation or burns.
	Inhalation:	Vapours may cause severe irritation of the respiratory system
	Ingestion:	Causes severe pain, nausea, vomiting, diarrhoea and shock. May cause haemorrhaging of the digestive tract. May cause corrosion and permanent tissue destruction of the oesophagus and digestive tract.
6.3	Emergency First Aid Procedures – Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.
	Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
	Skin:	Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing in a manner which limits further exposure.
	Inhalation:	Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration and if breathing is difficult give oxygen.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

7.1	Accidental Release Measures	Clean up small amounts with wet cloth.
7.2	Waste Disposal Procedures	Dispose of in accordance with local laws.
7.3	Precautions to be taken in Handling & Storage	Store away from food and beverages. Preferred storage is refrigeration. If not available, store in a cool, dry location with temperature not exceeding 25 °C.
7.4	Other Precautions	Keep out of reach of children.

SECTION VIII – CONTROL MEASURES

8.1	Respiratory Protection	None required during normal use of this product.
8.2	Ventilation	None required under normal conditions.
8.3	Protective Gloves	Latex gloves.

FOR DENTAL USE ONLY

Use as directed.

The information and recommendations are taken from raw materials MSDS(s) and manufacturer's knowledge believed to be accurate. Maestro Dental & Cosmetics makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.