

MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Information

1.1	Product Trade Name:	Stainless Smile Dental Whitening System – 10% Phosphoric Acid Paste.
1.2	Company Name:	Maestro Dental & Cosmetics Pty Ltd
1.3	Company Address:	Factory 2, 18-20 Redland Drive Mitcham Victoria 3132 Australia
1.4	Website address:	www.maestrodental.com.au
1.5	Emergency Telephone Number:	+61 (0)425 789 333
	Information Telephone Number:	+61 (0)3 9874 3993
1.6	Date Prepared:	21/03/05

SECTION II – Hazardous Ingredients/Identify Information

Hazardous Components	w/w	OSHA PEL	ACGIH TLV
Phosphoric Acid (H ₃ PO ₄) (CAS 7664-38-2)	10%	NE	NE

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°
3.3	Vapor Density (Air = 1)	3.4
3.4	Vapor Pressure	2 kPa @ 20°C
3.5	Form/Color/Odor	Clear, colorless liquid with no odor.
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.
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SECTION V – Reactivity Data

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| 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 Byproducts | Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, it may form phosphine and oxides of phosphorous. |
| 5.5 | Hazardous Polymerization | May occur. |
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SECTION VI – Health Hazard Data

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| 6.1 | Route(s) of entry | Inhalation, skin, ingestion, eye. |
| 6.2 | Health Hazards (acute and 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 track. |
| 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 |

Ingestion:	Get medical aid immediately. 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 and shoes. Discard 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 and Storage:	Store away from food and beverages. Preferred storage is refrigeration. If not available, store in a cool, dry location. Do not store at elevated temperatures ie Above 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 Cosmetics International 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.