



MATERIAL SAFETY DATA SHEET

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Version: 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zirconia Coloring Liquid

Company Name: Anyang Yingpai Dental Material Co., LTD

Company Address: Factory Building No. 33 Renmin Road, Huaxian County, Anyang City,
Henan Province, China

Emergency Phone: 0372-8327688

Product Use: To facilitate the manufacture of dental prostheses in the dental
laboratory

Intended Use: Solid zirconia crown and bridge restorations.

Limitations: For dental lab use only

SECTION 2: HAZARDS IDENTIFICATION

Hazard Statements: May cause mild irritation to eyes, respiratory system or skin.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS NUMBER	Weight%
1, 2-Propanediol	57-55-6	200-338-0	2.00-2.03
Terbium(III) Chloride	10042-88-3	233-132-4	0.03-0.07
Manganese Sulfate	10034-96-5	232-089-9	0.00-0.01
Chromium(III) Chloride	10060-12-5	233-038-3	0.03-0.08

Hazardous Components: None

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this products.

SECTION 4: FIRST AID MEASURES

Eye contact: Immediately flush with water for 10-15 minutes. Lift eyelid to ensure thorough flush. If irritation persists, get medical attention.

Skin contact: Thoroughly wash with soap and water. If irritation persists, get medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water if person is conscious. If irritation persists, get medical attention.

Inhalation: Remove person from source of exposure into fresh air. If symptoms persists, get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Appropriate Extinguishing Media: Water spray, carbon dioxide, dry chemical and suitable foam can be used.

Specific hazards arising from chemicals: Hazardous carbon oxides, nitrogen oxides, metal oxides may be released in the event of high temperature or combustion.

Special protective actions for firefighters: Firefighters should wear self-contained positive pressure breathing apparatus and protective firefighting clothing to prevent skin and eye contact. Fire upwind. Evacuate unrelated personnel to safe areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Minimize direct contact with skin and eyes and inhalation of fumes through suitable protective measures. Ventilate room sufficiently. Avoid spilling into drains and waterways. Dispose of at toxic waste collection point. Do not mix with normal refuse.

Methods of Cleaning: Use inorganic fluid-absorbing material (diatomaceous earth or universal binder) to pick up. Collect spilled material as much as possible and store in acid-proof container (Polyethylene). Clean up mechanically.

SECTION 7: HANDLING AND STORAGE

Handling: By trained personnel only. Wear protective glasses and rubber gloves. Keep out of reach of children.

Storage: Keep under temperature of 8°C or 46.4°F.

Spillage: Wear protective equipment as specified for handling.

Waste Disposal: Dispose of toxic waste at waste collection point. Do not mix with normal refuse.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	OSHA PEL (mg/m3)	ACGIH TLV (mg/in ³)
Coloring liquid mixture	Not established at these low levels	Not established at these low levels

OSHA=Occupational Safety and Health Administration.

ACGIH=American Conference of Governmental Industrial Hygienists AIHA = American Industrial Hygiene Association.

Eye protection: Glasses.

Skin protection: Rubber gloves.

Respiratory Protection: Masks.

Engineering Controls: Provide adequate local ventilation (see Section 7 for further information).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor	Distinctive
Color	Clear, green, blue tint
pH	Not applicable
Melting Point	Not applicable
Boiling Point	100°C
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Noncombustible
Upper/Lower Flammable Limit	Not applicable

Explosion Limit	None
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Bulk Density	0.998g/cm ³
Specific Gravity	Not data available
Solubility in water	Complete
Partition coefficient n-octanol/water	Not data available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Chemical Stability	Yes

SECTION 10: STABILITY AND REACTIVITY

Conditions to Avoid	None known
Hazardous reactions	None known
Hazardous Decomposition Products	None known

SECTION 11: TOXICOLOGICAL INFORMATION

For further information on toxicity of this product and its components please contact address at Page 1.

SECTION 12: ECOLOGICAL INFORMATION

The product is unlikely to cause any environmental damage if handled and used in accordance with the manufacturer's specifications.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with applicable federal, state and local regulations. State or local regulations or restrictions may differ from federal regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not classified as a hazardous material for any type of transportation.

SECTION 15: REGULATORY INFORMATION

This product does not require classification according to the criteria of the EC. European Directive 93/42 for medical products.

SECTION 16: OTHER INFORMATIONS

The information and recommendations set forth herein (hereinafter “information”) are presented in good faith and believed to be correct as of the date hereof. Anyang Yingpai Dental Material Co., LTD however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Anyang Yingpai Dental Material Co., LTD be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.