

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071254804

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

071253376 071253442 071253475 071253483 071253491 071253517 071253525 071253541 071254127 071254135  
071254143 071254150 071254168 071254176 071254184 071254192 071254200 071254218 071254226 071254234  
071254242 071254259 071254267 071254275 071254309 071254325 071254341 071254366 071254374 071254382  
071254390 071254408 071254416 071254424 071254440 071254457 071254515 071254531 071254564 071254598  
071254622 071254655 071254663 071254689 071254697 071254820 071254846 071254861 071254879 071254887  
071254895 071254903 071254911 071254929 071254937 071254945 071254994 071255009 071255017 071255025  
071255041 071255066 071255074 071255082 071255090 071255108 071255116 071255132 071255157 071255165  
071255173 071255181 071255199 071255207 071255215 071255231 071255249 071255256 071255264 071255272  
071255280 071255298 071255306 071255314 071255322 071255330 071255348 071255355 071255363 071255371  
071255439 071255447 071255454 071255462 071255470 071255488 071255496 071255504 071255512 071255538  
071255553 071255561 071255579 071255587 071255595 071255611 071255637 071255652 071255678 071255686  
071255694 071255702 071255736 071359819 071359827 071359850 071359876 071359884 510014909 510014916  
510014923 510014930 510015014 510015595 510015602 510015609 510015616 510015623 510015693 510015707  
510015756 510015763 510015770 510015777 510015784 510015791 510015805 510015812 510015819 510015826  
510015840 510015847 510015854 510015861 510015868 510015875 510015882 510015889 510015896 510015910  
510015917 510015924 510015931 510015938 510015966 510015973 510015980 510015987 510015994 510016001  
510016008 510016015 510016029 510016036 510016043 510016050 510016057 510016064 510016071 510016085  
510016092 510016099 510016106 510016113 510016120 510016127 510016141 510016155 510016162 510016169  
510016176 510016190 510016204 510016211 510016218 510016232 510016239 510016246 510016253 510016260  
510016267 510016281 510016295 510016302 510016309 510016323 510016330 510016337 510016344 510016351  
510016358 510016365 510016372 510016379 510016386 510016449 510016456 510016470 510016477 510016484  
510016491 510016505 510016512 510016519 510016526 510016540 510016547 510016554 510016561 510016568  
510016575 510016582 510016589 510016603 510016610 510016617 510016624 510016631 510016638 510016645  
510016659 510016666 510016687 510016694 510016701 510016708 510016715 510016722 510016736 510016743  
510016750 510016757 510016764 510016771 510016778 510016785 510016792 510016799 510016806 510016813  
510016820 510016827 510016834

## Section 1 – Manufacturer and Product Identification

**Product Name:** Zirconia Kinder Krowns®  
**Manufacturer:** Kinder Krowns®  
**Address:** 7505 Highway 7, Suite 100, St. Louis Park, MN 55426  
**Phone:** (952) 926-1809  
**Fax:** (952) 926-6331  
**Product Use:**  
 Intended Use: Dental Product  
 Limitations on Use: For use only by dental professionals  
 Specific Use: Dental crowns

## Section 2 – Hazards Identification

### 2.1 EMERGENCY OVERVIEW

Odor, Color: Odorless, White  
 General Physical Form: Solid

Immediate health, physical, and environmental hazards: This product, when used under reasonable conditions and in accordance with the Kinder Krowns directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

### 2.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:** No health effects are expected.

**Skin Contact:** No health effects are expected.

**Inhalation:** No health effects are expected.

**Ingestion:** No health effects are expected

## Section 3 – Composition / Information on Ingredients

Composition	CAS-Nr.	Symbol	R-phase	EG-Nr.
zirconium dioxide (ZrO <sub>2</sub> ) 70 - 100 %	1314-23-4			215-222-7
aluminum oxide 0 – 1 %	1344-28-1			215-691-6
yttrium oxide 1 – 5% (Y <sub>2</sub> O <sub>3</sub> )	1314-36-9			215-233-5
iron hydroxideoxid 0 – 3%	20344-49-4			243-746-4
mixture of glycols < 1%				
Sodium, potassium, boron and aluminum silicate glass < 1%	1332-58-7			310-194-1

## Section 4 - First Aid Measures

### 4.1 First Aid Procedures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** No need for first aid is anticipated.

**Skin Contact:** No need for first aid is anticipated.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** No need for first aid is anticipated.

## Section 5 – Fire-Fighting Measures

### NFPA Hazard Classification

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

**Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

## Section 6 – Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2. Environmental precautions

Not applicable.

### 6.3 Clean-up methods

Not applicable.

## Section 7 – Handling and Storage

### 7.1 Handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2 Storage

Not applicable.

## Section 8 – Exposure Controls / Personal Protection

### 8.1 Engineering Controls

Not applicable.

### 8.2 Personal Protective Equipment (PPE)

#### 8.2.1 Eye/Face Protection

Not applicable.

#### **8.2.2 Skin Protection**

Not applicable.

#### **8.2.3 Respiratory Protection**

Not applicable.

#### **8.2.4 Prevention of Swallowing**

Not applicable.

### **8.3 Exposure Guidelines**

None Established

## **Section 9 – Physical and Chemical Properties**

**Odor, Color:** Odorless, White

**General Physical Form:** Solid

**Autoignition temperature:** Not Applicable

**Flash Point:** Not Applicable

**Flammable Limits(LEL):** Not Applicable

**Flammable Limits(UEL):** Not Applicable

**Boiling Point:** Not Applicable

**Density:** No Data Available

**Vapor Density:** Not Applicable

**Vapor Pressure:** Not Applicable

**Specific Gravity:** Not Applicable

**pH:** Not Applicable

**Melting point:** No Data Available

**Solubility in Water:** Insoluble in water

**Evaporation rate:** Not Applicable

**Volatile Organic Compounds:** Not Applicable

**Kow - Oct/Water partition coef:** No Data Available

**Percent volatile:** Not Applicable

**VOC Less H2O & Exempt Solvents:** Not Applicable

**Viscosity:** Not Applicable

## **Section 10 – Stability and Reactivity**

10.1 Conditions to Avoid: Not Applicable

10.2 Materials to Avoid: Not Applicable

10.3 Hazardous Decomposition Products: Not Applicable

## **Section 11 – Toxicological Information**

When used and handled according to the specifications, the product does not have any harmful effects to our knowledge and the information provided to us.

## **Section 12 – Ecological Information**

If use properly, there are not environmental problems expected.

12.1 Ecotoxicity: None

12.2 Mobility: Not Applicable

12.3 Persistence / degradability: Not Applicable

12.4. Bioaccumulation potential: Not Applicable

12.5. Other adverse effects: None

### Section 13 – Disposal Consideration

Dispose of contents/container in accordance with local/regional/national/international regulations.

EPA Hazardous Waste Number (RCRA): Not regulated

### Section 14 – Transport Information

14.1. US DOT information

**Shipping name:** not regulated

### Section 15 – Regulatory Information

15.1. US Federal Regulations

Component Analysis: None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

15.2. State Regulations

Component Analysis: The following components appear on one or more of the following state hazardous substances lists:

Composition	CAS-Nr.	CA	MA	MN	NJ	PA	RI
zirconium dioxide (ZrO <sub>2</sub> )	1314-23-4	No	Yes	No	No	No	No

15.3. International Regulations

Component Analysis – WHMIS IDL: No components are listed in the WHMIS IDL

### Section 16 – Other Information

**DISCLAIMER:** The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. KINDER KROWNS MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Kinder Krowns product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Kinder Krowns product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Kinder Krowns product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Kinder Krowns provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, Kinder Krowns makes no representations as to its completeness or accuracy.

This safety data sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.