

# Safety Data Sheet

## \*\*\* Section 1 - Product and Company Identification \*\*\*

**Material Name:** NuSmile ZR Pediatric Crowns - Light Shade

**Date Effective:** 02/20/2020

### Manufacturer Information

NuSmile Ltd.

3315 West 12th St.

Houston, TX 77008

Phone: 713-861-0033

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Email: info@nusmile.com

## \*\*\* Section 2 - Hazards Identification \*\*\*

### GHS CLASSIFICATION

Skin Corrosion/Irritation - Category 2

Eye Damage/Irritation - Category 2B

Respiratory Sensitization - Category 1

Skin Sensitization - Category 1

Specific Target Organ Toxicity (Single Exposure) - Category 3

### GHS LABEL ELEMENTS

#### Symbol(s)



#### Signal Word Hazard Statements

Danger

Causes skin and eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction. May cause respiratory irritation.

#### Precautionary Statements

##### Prevention

Wash thoroughly after handling.

Wear protective gloves.

Avoid breathing dust.

In case of inadequate ventilation wear respiratory protection. Use in a well-ventilated area.

##### Response

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.

## Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

| CAS #         | Component                                      | Percent |
|---------------|--|---------|
| 1314-23-4     | Zirconium oxide                                | 88-96   |
| 1314-36-9     | Yttrium oxide (Y <sub>2</sub> O <sub>3</sub> ) | 4-6     |
| 12055-23-1    | Hafnium oxide (HfO <sub>2</sub> )              | 5       |
| Not Available | Organic Binder                                 | 2-5     |
| Trade Secret  | Pigment  | 1-4     |

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Get medical aid.

### First Aid: Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Get medical aid.

### First Aid: Ingestion

Give several glasses of water. Vomiting may occur spontaneously, but do not induce! Never give anything by mouth to an unconscious person. Get medical aid.

### First Aid: Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties. Not flammable.

### Hazardous Combustion Products Extinguishing Media Unsuitable Extinguishing Media Fire Fighting Equipment/Instructions

Irritating and toxic fumes and gases may evolve during a fire.

Use appropriate extinguishing media for surrounding fire.

None

Firefighters should wear full protective gear.

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## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Recovery and Neutralization

Avoid creating dusts when recovering spilled product.

### Materials and Methods for Clean-Up Emergency Measures Personal Precautions and Protective Equipment Environmental Precautions Prevention of Secondary Hazards

Sweep up and place in suitable containers for waste disposal.

Isolate area. Keep unnecessary personnel away.

Wear appropriate protective equipment and clothing during clean-up.

None

None

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Wear suitable protective equipment. Use with adequate ventilation. Avoid creating dust. Wash thoroughly after handling.

### Storage Procedures

Store in a cool, dry, well-ventilated area away from

acids. **Incompatibilities** Oxidizing agents.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

### Engineering Measures

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. **Personal**

### Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

### Personal Protective Equipment: Hands Personal Protective Equipment: Eyes Personal

### Protective Equipment: Skin and Body

Wear appropriate protective gloves to prevent skin exposure.

Wear safety glasses with sideshields.

Wear full body coveralls to prevent skin exposure.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

**Appearance:** Brown granules.  
**Physical State:** Solid  
**Vapor Pressure:** Not Determined  
**Boiling Point:** Not Applicable  
**Solubility (H2O):** Insoluble  
**Evaporation Rate:** Not Determined  
**Octanol/H2O Coeff.:** Not Determined  
**Flash Point Method:** Not Applicable

**Odor:** None  
**pH:** Not Applicable  
**Vapor Density:** Not Applicable  
**Melting Point:** Not Available  
**Specific Gravity:** 6.0 g/cm3  
**VOC:** Not Determined  
**Flash Point:** Not Applicable  
**Upper Flammability Limit (UFL):** Not Applicable

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**Lower Flammability Limit (LFL):** Not Applicable  
**Auto Ignition:** Not Applicable

**Burning Rate:** Not Applicable

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

**Chemical Stability** Stable under normal temperatures and pressures. **Hazardous Reaction Potential**

Will not occur.

**Conditions to Avoid Incompatible Products Hazardous Decomposition Products**

Avoid incompatibles and dust generation.

Oxidizing agents.

Irritating and toxic fumes and gases upon thermal decomposition.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Toxicity

#### Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

**Potential Health Effects: Skin Corrosion Property/Stimulativeness Potential Health Effects: Eye Critical Damage/ Stimulativeness Potential Health Effects: Ingestion**

Causes skin irritation.

Causes eye irritation.

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

#### Potential Health Effects: Inhalation

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May be harmful if inhaled.

#### Respiratory Organs Sensitization/Skin Sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### Generative Cell Mutagenicity Carcinogenicity

This product is not reported to have any mutagenic effects.

#### A: General Product Information

This product is not reported to have any carcinogenic effects. **B: Component**

**Carcinogenicity** None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP. **Reproductive Toxicity**

This product is not reported to have any reproductive toxicity effects.

**Specified Target Organ General Toxicity: Single Exposure Specified Target Organ General Toxicity: Repeated Exposure Aspiration Respiratory Organs Hazard**

May cause respiratory irritation.

This product is not reported to have any specific target organ toxicity repeat effects.

Not an aspiration hazard.

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## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

This product is not reported to have any ecotoxicity effects. **B:**

**Component Analysis - Ecotoxicity - Aquatic Toxicity** No ecotoxicity data are available for this product's components.

#### Persistence/Degradability Bioaccumulation

No information available for the product.

No information available for the product.

**Mobility in Soil** No information available for the product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

### Disposal of Contaminated Containers or Packaging

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

## \*\*\* Section 14 - Transportation Information \*\*\*

### DOT Information

**Shipping Name:** Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

### Regulatory Information

#### US Federal Regulations

#### Component Analysis

None of this products 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).

#### State Regulations

#### Component Analysis - State

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

| Component       | CAS       | CA | MA  | MN | NJ | PA | RI |
|-----------------|-----------|----|-----|----|----|----|----|
| Zirconium oxide | 1314-23-4 | No | Yes | No | No | No | No |

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

#### Additional Regulatory Information

#### Component Analysis - Inventory

| Component                                      | CAS #        | TSCA | CAN | EEC    |
|--|--------------|------|-----|--------|
| Zirconium oxide                                | 1314-23-4    | Yes  | DSL | EINECS |
| Hafnium oxide (HfO <sub>2</sub> )              | 12055-23-1   | Yes  | DSL | EINECS |
| Yttrium oxide (Y <sub>2</sub> O <sub>3</sub> ) | 1314-36-9    | Yes  | DSL | EINECS |
| Pigment  | Trade Secret | Yes  | DSL | EINECS |

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| * * * <b>Section 16 - Other Information</b> * * * |
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## Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry. **Literature References**

Available on request.

End of Sheet