

1. Product and Company Identification

Product Name: ORIGIN LIVE Zirconia Color Liquid
Revision Date: 10.15.2014
MSDS Number: 42
Product Use: Coloring liquid for shading of Origin Live™ zirconia. For dental lab use only (Zirconia-based Crown and Bridge frameworks, Full contour application)

Manufacturer: B&D Dental Corp
2371 South, Presidents Dr. Suite E&F
West Valley City, UT 84120

Technical Services: (801) 281-4012

Emergency MSDS Assistance:
US: (800) 255-2839
Email: support@OriginCadCam.com

2. Chemical Composition / Information on Ingredients

Chemical characterization: Polyethylene Glycol (CAS Nr. 25322-68-3) < 1 w%
Ferric Chloride (CAS Nr. 77050-08-0) < 1 w%
Chromium Chloride (CAS Nr. 10025-73-7) < 1 w%
Manganese Chloride (CAS Nr. 13446-34-9) < 1 w%
Distilled Water >94 w%

Hazardous components: None

3. Hazards Identification

Adverse human effects and symptoms:
May cause mild irritation to eyes, respiratory system or skin.

4. First Aid Measures

Eye Contact: Immediately flush with plenty of water for 10-15 minutes.
Lift eye lid to ensure thorough flush. If irritation persists consult physician.
Skin Contact: Thoroughly wash with water and soap. If irritation persists consult physician.

Ingestion:	Do not induce vomiting. Flush mouth with plenty of water if person is conscious. Contact physician. Move person into fresh air. If irritation persists see physician.
Inhalation:	Move person into fresh air. If irritation persists consult physician.

5. Fire Fighting Measures

Flammability	No- No special fire fighting measures required
Other information	Toxic fumes may be released due to heat during fire. Protective clothing and suitable respiratory protection is required.

6. Accidental Release Measures

Personal Precautions	Minimize direct contact with skin and eyes and inhalation of fumes through suitable protective measures. Ventilate room sufficiently. Environmental precautions: Avoid spilling into drains and waterways. Expose of at toxic waste collection point.
Method 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, etc). Clean up mechanically.

7. Handling and Storage

Handling	Only by trained personnel - Keep out of reach of children
Industrial hygiene	Do not inhale fumes. Avoid skin contact.
Storage	Keep under dry conditions
Processing	Wear protective glasses and rubber gloves.
Further indications for storage	Not required

8. Exposure Controls/Personal Protection

Technical equipment	Provide adequate local ventilation (see point 7 for further information)
Additional indications	The basis for the indications are the guidelines contained in the regulatory lists in force at the moment of release of the data sheet
Personal protective equipment	
Respiratory protection	Face Mask

Hand protection	Rubber gloves
Material of gloves	----
soak-through time	----
Eye protection	Glasses
General measures	Not defined

For further information contact

ACGIH: American conference of Governmental Industrial Hygienists.

OSHA: Occupational Safety and Health Association

AIHA: American Industrial Hygiene Ass. Workplace Environment Exposure Level

9. Physical and chemical properties

Form	Liquid
Color	Yellowish
Odor	Distinctive
Changes in physical state	
Melting point/sphere	N/A
Boiling point/sphere	100 degrees C
Density at 20 °C	1g/cm ³
Solubility Water	Complete
Flash point	N/A
Ignition temperature	N/A
Explosion limits	No risk of explosion

10. Stability and reactivity

Chemical Stability	Yes
Hazardous decomposition	None
Hazardous reactions	None
Further information	None

11. Toxicological information

For further information on toxicity of the product and the components please contact address at page 1.

12. Ecological Information

Biodegradability	Not defined
Further details	No adverse ecological effects if handled and used according to manufacturer's specifications

13. Disposal Considerations

Product Dispose of according to local and governmental regulations with regards to toxic waste treatment.

14. Transport Information

Numbers LF-F100-0100-2, 70-2011-1461-1, 70-2011-1462-9
70-2011-1463-7, 70-2011-14645, 70-2011-1465-2, 70-2011-1466-0,
70-2011-1467-8

Transport at land GGVE / GGVS Class---Cipher---
RID / ADR Class---Cipher---

Transport at sea GGVS sea Class---Cipher---
Marine pollutant: No

Air transport ICAOI-TI / IATA-DGR Class---

Further information Product is not classified for any mode of transportation.

15. Regulatory Information

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

16. Further Information

Hazard rating Health 1 (slight)
Flammability 0 (minimal)
Reactivity 0 (minimal)

Specific Dangers None

The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed in good faith and believed to be correct as of the date hereof. B&D Dental Corp., 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 determinations as to its suitability for their purpose prior to use. In no event will B&D Dental Corp. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.