

**G&H® Wire Company**2165 Earlywood Drive
Franklin, IN 46131

(317) 346-6655 International

(317) 346-6663 Fax

E-mail: ghmail@ghwire.com

MATERIAL SAFETY DATA SHEET DIRECTIVE 91/155/EEC

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

1.1 Chemical Nature, Sales Name, Use: Ceramic, Ceramic, used in orthodontic products such as brackets.

1.2 Company Identification:

G&H Wire Company
P.O. Box 248
Greenwood, Indiana 46142
Telephone: 317-346-6655
Facsimile: 317-346-6663

1.3 Emergency Contact: Poison control center

2. COMPOSITION/INFORMATION ON INGREDIENTS

Alumina Oxide - 99.9%
Silicone Dioxide - Balance

3. HAZARDS IDENTIFICATION

None

4. FIRST-AID MEASURES

4.1 Inhalation: Move person to fresh air, consult a physician

4.2 Skin Contact: Prolonged contact may cause irritations in sensitized persons.

4.3 Eye Contact: Flush thoroughly with water, consult a physician.

4.4 Ingestion: While ingestion of large enough quantities to cause health effects is unlikely, consult a physician.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media: N/A

5.2 Unsuitable Extinguishing Media: N/A

5.3 Particular Hazards: None

5.4 Protective Equipment for Fire-Fighters: N/A

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: N/A

6.2 Environmental Precautions: N/A

6.3 Cleaning Methods: N/A

7. HANDLING AND STORAGE

7.1 Handling: N/A

7.2 Storage: N/A

7.3 Storage Conditions: N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Form: solid
Color:
Odor: odorless

9.2 Change of State:
Melting Point/Range: 1950 degrees C
Boiling Point: high

9.3 Flash Point:

9.4 Ignition Point: N/A

9.5 Vapor Pressure (20°C):

9.6 Density (20°C):

9.7 Solubility in: Water (20°C): insoluble
Organic Solvent (20°C):

9.8 PH-Value (at 10g/1H₂O):

9.10 Viscosity (20°C):

10. STABILITY AND REACTIVITY

- 10.1 Thermal Decomposition: stable
- 10.2 Conditions to Avoid: N/A
- 10.3 Materials to Avoid: N/A
- 10.4 Hazardous Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

- 11.1 Oral Toxicity: Not available
- 11.2 Inhalation: Not available
- 11.3 Skin Irritation: Not available
- 11.4 Sensitization: Not available
- 11.5 Eye Irritation: Not available
- 11.6 Further Details:

12. ECOLOGICAL INFORMATION

- 12.1 Acute Toxicity in Fish (LC-50/48h)
- 12.2 Bacteria Toxicity (EC-0):
- 12.3 Biodegradability:
- 12.4 Further Details:

13. DISPOSAL CONSIDERATIONS

- 13.1 Product: Dispose of in accordance with local, state, and federal regulations
- 13.2 Packaging: Dispose of in accordance with local, state, and federal regulations
- 13.3 Waste Disposal Code: Dispose of in accordance with local, state, and federal regulations

14. TRANSPORT INFORMATION

- 14.1 Overland Transport ADR/RID/GGVS/GGVE:
- 14.2 Sea Transport GGVSEA/IMDG-Code:
- 14.3 Air Transport ICAO/IATA-DGR:
- 14.4 Inland Waterway Transport ADNR:

14.5 Further Details:

15. REGULATORY INFORMATION

Preparation as defined by the (German) Chemicals Act (dated 4/03/1990).

15.1 Labeling:

Product Contains:

Danger Symbol:

R-Sentences R36/37/38:

S-Sentences S26:

S-Sentences S28:

15.2 National Regulation:

VbF:

TA-Air:

Water Pollution 1:

16. OTHER INFORMATION

- 16.1 The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.