

COMPANY INFORMATION

COMPANY NAME: ORTHO SPECIALTIES
COMPANY ADDRESS: 3820 OHIO AVE - SUITE 15
 ST. CHARLES, IL 60174
COMPANY PHONE: 630-443-0225
COMPANY FAX: 630-443-0224
COMPANY WEB ADDRESS: www.orthospecialties.com

GLASS IONOMER CEMENT KIT

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SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NAME: Glass Bond™
COMMON OR CHEMICAL NAME: Glass Ionomer Cement

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT CONTENTS: 25g Glass Ionomer Powder
 15cc Glass Ionomer Liquid

COMPONENTS CONTAINING HAZARDOUS INGREDIENTS:
 Glass Ionomer Powder - *None Listed.*
 Glass Ionomer Liquid - *None Listed.*

HAZARDOUS INGREDIENTS: None

SECTION 3 – HAZARDS IDENTIFICATION

For potential health hazards: See Section 11 below.

No other significant critical hazards to man or the environment are reasonably foreseen.

SECTION 4 – FIRST AID MEASURES

- INHALATION:**
- **Glass Ionomer Powder:** No harm anticipated, though breathing of dust should be avoided.
 - **Glass Ionomer Liquid:** No harm anticipated.
- SKIN CONTACT:**
- **Glass Ionomer Powder:** Wash with copious amounts of water.
 - **Glass Ionomer Liquid:** Wash with copious amounts of water.
- EYE CONTACT:**
- **Glass Ionomer Powder:** Flush out with copious amounts of water. Seek medical attention if irritation persists.
 - **Glass Ionomer Liquid:** Flush out with copious amounts of water. Seek medical attention if irritation persists.
- INGESTION:**
- **Glass Ionomer Powder:** No harm perceived, however, if large quantities are accidentally swallowed, seek medical attention. Advise of fluoride presence in material
 - **Glass Ionomer Liquid:** No hazard if small amounts are swallowed. If large amounts are swallowed, ingest baking soda and seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water contact acceptable.
EXTINGUISHING MEDIA WHICH SHOULD NOT BE USED: None
SPECIAL EXPOSURE HAZARDS FROM COMBUSTION PRODUCTS: None for any component in quantities as packaged.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

- **Glass Ionomer Powder:** Avoid dusting and exposure to moisture.
- **Glass Ionomer Liquid:** Avoid exposure to elevated temperatures.

ENVIRONMENTAL PRECAUTIONS:
 No precautionary measures required.

METHODS FOR CLEANING UP:

- **Glass Ionomer Powder:** Take same steps as with other particulate solid, basically non-to substances. Do not dispose into sink. Dispose in accordance with all local, state and federal regulations.
- **Glass Ionomer Liquid:** Wash with water into sewer system.

SECTION 7 - HANDLING AND STORAGE

HANDLING PRECAUTIONS:

- **Glass Ionomer Powder:** Avoid dusting and exposure to moisture.
- **Glass Ionomer Liquid:** Avoid exposure to elevated temperatures.

SAFE STORAGE CONDITIONS:
 Store at temperatures not exceeding 75°F (24°C), in dry conditions.

OTHER RESTRICTIONS OR RECOMMENDATIONS:
 None.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION AND VENTILATION:

- **Glass Ionomer Powder:** Use dust mask if material is accidentally blown by air stream.
- **Glass Ionomer Liquid:** Not required under normal handling.

PROTECTIVE CLOTHING OR EQUIPMENT:
 Not required for any component under normal handling.

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SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION CONTINUED....

UNUSUAL WORK / HYGENIC PRACTICES:

- **Glass Ionomer Powder:** Avoid dusting, wash with water if skin contact occurs.
- **Glass Ionomer Liquid:** Avoid spills, wash immediately with water if skin or eye contact occurs.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

- **Glass Ionomer Powder:** Fine white powder.
- **Glass Ionomer Liquid:** Clear liquid.

ODOR:

- **Glass Ionomer Powder:** Odorless.
- **Glass Ionomer Liquid:** Mild characteristic odor.

BOILING POINT/ RANGE:

- **Glass Ionomer Powder:** Not applicable.
- **Glass Ionomer Liquid:** ca 105°C

VAPOR DENSITY (AIR=1):

- **Glass Ionomer Powder:** Not applicable.
- **Glass Ionomer Liquid:** ca 0.62

PH: No data available.

MELTING POINT / RANGE: Not applicable.

FLASH POINT: Not applicable.

FLAMMABILITY: None.

EXPLOSIVE LIMITS IN AIR: Not applicable.

REACTIVITY IN WATER: None.

OXIDIZING PROPERTIES: Not applicable.

VAPOR PRESSURE (MM HG):

- **Glass Ionomer Powder:** Negligible at ambient temperatures.
- **Glass Ionomer Liquid:** ea. 720mm Hg at 100°C.

SPECIFIC GRAVITY (H₂O=1):

- **Glass Ionomer Powder:** ca 3.0
- **Glass Ionomer Liquid:** ca 1.1.

AUTO-IGNITION TEMPERATURE: Not applicable.

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SOLUBILITY IN WATER:

- **Glass Ionomer Powder:** Negligible.
- **Glass Ionomer Liquid:** Soluble.

OTHER DATA: None.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS OF INSTABILITY:

- **Glass Ionomer Powder:** None known.
- **Glass Ionomer Liquid:** Contact with alkaline materials.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES:

- **Glass Ionomer Powder:** Not applicable.
- **Glass Ionomer Liquid:** Contact with alkaline materials.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID:

- **Glass Ionomer Powder:** Moisture.
- **Glass Ionomer Liquid:** Elevated temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

SECTION 11 - TOXICOLOGICAL INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS: None.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENIC OR POTENTIAL CARCINOGENIC EFFECTS: No ingredient listed as a carcinogen.

OTHER POTENTIAL HEALTH EFFECTS: None known.

POTENTIAL CHRONIC HEALTH EFFECTS: None.

SIGNS AND SYMPTOMS OF EXPOSURE: None.

SECTION 12 - ECOLOGICAL INFORMATION

No ecological damage or impact anticipated upon exposure to the environment in quantities as packaged.

SECTION 13 - DISPOSAL CONSIDERATION

WASTE DISPOSAL:

- **Glass Ionomer Powder:** Dispose of in accordance with all federal, state, and local regulations. Do not dispose into sink.
- **Glass Ionomer Liquid:** Disposal in sink is acceptable.

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SECTION 14 – TRANSPORT INFORMATION

UN CLASSIFICATION: Not applicable.

IDENTIFICATION: Not applicable.

SPECIAL PROVISIONS FOR TRANSPORT: Avoid elevated temperatures and high intensity light.

SECTION 15 - REGULATORY INFORMATION

U.S FDA DENTAL DEVICE: Class II product

EC MEDICAL DEVICE DIRECTIVE: Class IIa product

SECTION 16 - OTHER INFORMATION

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or exposure arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the company, this MSDS information may not be applicable.