

**DENTSPLY/International
DENTSPLY/Caulk
Safety Data Sheet**

1. Product and Company Identification

Product Name ChemFil™ Rock Powder Advanced Glass Ionomer Restorative	MSDS Code Number K115352
Trade Name & Synonyms ChemFil™ Rock Powder Advanced Glass Ionomer Restorative	Date of Last Revision 03/12/10
Manufacturer DENTSPLY/Caulk	Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.caulk.com , http://www.dentsply.com
Grades or Minor Variant Identities Not Applicable	Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada) Not Applicable	Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

2. Hazard(s) Identification

N/A - Not Applicable

3. Composition/Information on Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Polycarboxylic acid	Proprietary	Not Established	10 - 25

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minute under running water.	Get medical aid.	Not Applicable
Skin	Immediately rinse with water.	Get medical aid if symptoms persist.	Not Applicable
Inhalation	Supply fresh air. Consult physician if symptoms persist	Get medical aid.	Not Applicable
Ingestion	If symptoms persist consult physician.	Get medical aid.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire and Explosion Data

Flashpoint Method: Not Applicable	Flammable (Explosive) Limits in Air LEL: Not Applicable UEL: Not Applicable	Autoignition Temperature: Not Applicable	Other: Not Applicable
Flame Propagation or Burning Rate (for Solids) Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: NFPA Flammability =0	
Extinguishing Media: Water spray, CO ₂ , or extinguishing powder. Fight larger fires with water spray or alcohol resistant foam.		Extinguishing Media to Avoid: Water with full jet.	
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.			
Unusual Fire and Explosion Hazards: In routine use this product does not present an explosion hazard.			

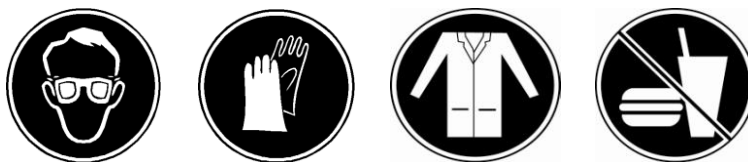
6. Accidental Release Measures

Containment Techniques: Material is a solid and as such containment is limited to steps to reduce dust.		
Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container. Keep exposure to airborne particles to a minimum when cleaning by using proper ventilation as discussed in section 8.		
Evacuation Procedures: Not Applicable	Special Instructions: Not Applicable	Reporting Requirements: Not Applicable

7. Handling and Storage

Handling Practices and Warnings: Minimize dust generation when handling. Avoid inhalation of dust, and contact with eyes. Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.
Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. To prevent water absorption and contamination. Store away from food and beverages.

8. Exposure Control / Personal Protection



Ventilation: None required.		Other Engineering Controls: Not Applicable
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face	Wear appropriate protective eyeglasses or safety glasses to prevent exposure during normal use.	Wear appropriate protective eyeglasses or safety glasses to prevent exposure during normal use.
Skin	During normal use, disposable gloves are recommended to prevent skin exposure.	During normal use, disposable gloves are recommended to prevent skin exposure.
Inhalation	None required when using clinically relevant quantities.	Not Applicable
Body Protection	Protective work clothing	Protective work clothing
General Hygiene Considerations and Work Practices: When using powders, use methods to minimize dust generation. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear protective gloves. Use a NIOSH or European Standard EN149 approved respirator to prevent inhalation of dust.		
Other Protective Measures and Equipment: Not Applicable.		

9. Physical and Chemical Characteristics

Appearance: Various colored free flowing powder.		Odor: Odorless.
Normal Physical State: Solid		Melting Point: Not Applicable
Specific Gravity: Not Determined	Solubility in Water: Partially soluble	pH: Not Applicable
Vapor Pressure (mm Hg): Not Applicable	Vapor Density (AIR=1) Not Applicable	Evaporation Rate (Butyl Acetate =1) Not Applicable
Other: Not Applicable		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): None.	
Hazardous Products Produced During Decomposition: No dangerous decomposition products known.	
Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid: None known.
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid: None known.

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product may be irritating to the skin. On the eye the product has an irritating effect.					
Emergency Overview: Powder is not known to cause significant health problems. Should be considered an inert or nuisance dust. Avoid inhalation of dust. Keep dust out of eyes to prevent irritation.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Material can cause irritation.	Single	Mild	Irritation	Not Applicable
Skin	Material may cause skin irritation.	Single & Repeated.	Mild	Irritation	Not Applicable
Inhalation	Not a normal route of entry.	Not a normal route of entry.	Not known to cause any health issues so anticipated response is mild.	Not a normal route of entry.	Not Applicable
Ingestion	Not a normal route of entry.	Not a normal route of entry.	Not known to cause any health issues so anticipated response is mild.	Not a normal route of entry.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Medical Conditions Aggravated by Exposure: Existing respiratory conditions may be aggravated by inhalation of powders.					
Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.					
Potential Environmental Effects: Not considered hazardous to surface or ground water.					
NFPA Hazard Classification Ratings (Scale 0-4), Health = 1, Fire = 0, Reactivity = 0					

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Generally not hazardous for water.

13. Disposal Considerations

Regulations: Smaller quantities can be disposed of with household waste. Dispose of in accordance with Federal, State and Local regulations.
Properties (Physical/Chemical) Affecting Disposal: Dry powder. Dispose of material as solid waste in a closed container.

14. Transport Information

Regulated for Shipping: No. Not Regulated	DOT Shipping Name: Not Regulated	Packing Group: Not Applicable
Do Changes in Quantities, packaging, or shipment method change product classification? No	DOT Hazard Class: Not Applicable	UN Number: Not Applicable

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.
U.S. Federal Regulations: <u>CERCLA 103 Reportable Quantity</u> : This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations
<u>Section 313 Toxic Chemicals</u> : This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.
U.S. State Regulations <u>California Proposition 65</u> : This product does not contain any chemicals, which are on the California Proposition 65 list.
<u>International Regulations: Canadian Environmental Protection Act</u> : This product is a medical device and not subject to chemical notification requirements.
<u>European Community Labeling: in accordance with EC Directives</u> : Not a dangerous preparation.
International Regulations: Relevant R-phrases: R36/37/38 Irritating to eyes, respiratory system and skin.
<u>European Inventory of New and Existing Chemicals Substances (EINECS)</u> : This product is a medical device and not subject to chemical notification requirements.
Other: Not Applicable

16. Other Information

<p>To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.</p> <p>All components are synthetically produced; none are derived from animal products.</p> <p>This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.</p> <p>The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.</p>
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Product Use (for Canada) Not Applicable	Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

2. Hazard(s) Identification



**WARNING
CAUSES SKIN IRRITATION**

Wash hands thoroughly after handling
Wear protection gloves.

3. Composition/Information on Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Polycarboxylic acid	Proprietary	Not Established	10 – 25
Tartaric Acid	87-69-4	Not Established	2.5 - 10

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minute under running water. If symptoms persist consult physician.	Get medical aid.	Not Applicable
Skin	Immediately rinse with soap and water. Rinse thoroughly.	Get medical aid if symptoms persist.	Not Applicable
Inhalation	Supply fresh air. Consult physician if symptoms persist	Get medical aid.	Not Applicable
Ingestion	If symptoms persist consult physician.	Get medical aid.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire and Explosion Data

Flashpoint Method: Not Applicable	Flammable (Explosive) Limits in Air LEL: Not Applicable UEL: Not Applicable	Autoignition Temperature: Not Applicable	Other: Not Applicable
Flame Propagation or Burning Rate (for Solids) Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: NFPA Flammability =0	
Extinguishing Media: Water spray, CO ₂ , or extinguishing powder. Fight larger fires with water spray or alcohol resistant foam.		Extinguishing Media to Avoid: Water with full jet.	
Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.			
Unusual Fire and Explosion Hazards: In routine use this product does not present an explosion hazard.			

6. Accidental Release Measures

Containment Techniques: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.		
Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container. Keep exposure to airborne particles to a minimum when cleaning by using proper ventilation as discussed in section 8.		
Evacuation Procedures: Not Applicable	Special Instructions: Not Applicable	Reporting Requirements: Not Applicable

7. Handling and Storage

Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. Ensure good ventilation at the workplace. Prevent formation of aerosols.

Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. To prevent water absorption and contamination. Store away from food and beverages.

8. Exposure Control / Personal Protection



Ventilation: None required.		Other Engineering Controls: Not Applicable
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face	Wear appropriate protective eyeglasses or safety glasses to prevent exposure during normal use.	Wear appropriate protective eyeglasses or safety glasses to prevent exposure during normal use.
Skin	During normal use, disposable gloves are recommended to prevent skin exposure.	During normal use, disposable gloves are recommended to prevent skin exposure.
Inhalation	Not necessary if room is well-ventilated. None required when using clinically relevant quantities.	Not Applicable
Body Protection	Protective work clothing	Protective work clothing
General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and skin.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear protective gloves. Use a NIOSH or European Standard EN149 approved respirator to prevent inhalation of dust.		
Other Protective Measures and Equipment: Not Applicable.		

9. Physical and Chemical Characteristics

Appearance: Colorless liquid		Odor: Acidic
Normal Physical State: Liquid		Melting Point: Not Applicable
Specific Gravity: Not Determined	Solubility in Water: Fully soluble	pH: 2.5
Vapor Pressure (mm Hg): Not Applicable	Vapor Density (AIR=1) Not Applicable	Evaporation Rate (Butyl Acetate =1) Not Applicable
Other: Not Applicable		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): None is used according to directions.		
Hazardous Products Produced During Decomposition: No dangerous decomposition products known.		
Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid: None known.	
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid: None known.	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Irritant to skin and mucous membranes. On the eye the product has an irritating effect.					
Emergency Overview: Powder is not known to cause significant health problems. Keep dust out of eyes and off skin and mucous membranes to prevent irritation.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Irritating effect to eyes.	Single	Mild	Irritation	Not Applicable
Skin	Irritating to skin and mucous membranes.	Single & Repeated.	Mild	Irritation	Not Applicable
Inhalation	Not a normal route of entry.	Not a normal route of entry.	Not known to cause any health issues so anticipated response is mild.	Not a normal route of entry.	Not Applicable
Ingestion	Not a normal route of entry.	Not a normal route of entry.	Not known to cause any health issues so anticipated response is mild.	Not a normal route of entry.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Medical Conditions Aggravated by Exposure: Existing respiratory conditions may be aggravated by inhalation of powders.					
Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.					
Potential Environmental Effects: Not considered hazardous to surface or ground water.					
NFPA Hazard Classification Ratings (Scale 0-4), Health = 1, Fire = 0, Reactivity = 0					

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements:
Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, streams or sewage systems.

13. Disposal Considerations

Regulations: Must not be disposed together with household garbage. Dispose of in accordance with Federal, State and Local regulations.

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

14. Transport Information

Regulated for Shipping: No. Not Regulated	DOT Shipping Name: Not Regulated	Packing Group: Not Applicable
Do Changes in Quantities, packaging, or shipment method change product classification? No	DOT Hazard Class: Not Applicable	UN Number: Not Applicable

15. Regulatory Information

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U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

International Regulations: Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

European Community Labeling: in accordance with EC Directives: Not a dangerous preparation.

International Regulations: Relevant R-phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases: 23 Do not breathe fumes or spray. 25 Avoid contact with eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 28 After contact with skin, wash immediately with plenty of water. 36/37 Wear suitable protective clothing and gloves. 60 This material must be disposed of as hazardous waste.

European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements.

Other: Not Applicable

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.

All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

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