

## Caulk

1. Product and Company Identification	
Product Name <b>DISPERSALLOY® DISPERSED PHASE ALLOY (Capsules)</b>	MSDS Code Number 556899
Trade Name & Synonyms <b>DISPERSALLOY® DISPERSED PHASE ALLOY (Capsules)</b>	Date of Last Revision 10/11/06
Chemical Name <b>Silver Copper Alloy</b>	Manufacturer <b>DENTSPLY/Caulk</b>
C.A.S. Number <b>Not Applicable</b>	Address <b>38 West Clarke Avenue Milford DE 19963-1805 <a href="http://www.caulk.com">http://www.caulk.com</a></b>
Grades or Minor Variant Identities <b>Fast Set and Regular Set, 1, 2, &amp; 3 Spill</b>	Information Telephone Number <b>(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)</b>
Product Use (for Canada) <b>Dental Amalgam Filling Material</b>	Emergency Telephone Number <b>(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)</b>

2. Composition Of Ingredients			
Hazardous Components	C.A.S. Number	Exposure Limits	%
Silver	7440-22-4	0.1 mg/M <sup>3</sup>	70
Tin	7440-31-5	2 mg/M <sup>3</sup>	18
Copper	7440-50-8	1 mg/M <sup>3</sup>	12

**This product contains mercury, a chemical known to the State of California to cause birth defects or other reproductive harm.**

3. Hazard Identification					
Emergency Overview: EYES: (Powder only) May cause irritation upon contact. SKIN: Prolonged or repeated contact may cause irritation or allergic reaction. Avoid repeated contact with skin, chronic exposure may cause argyria (grayish blue pigmentation of the skin). No known serious toxic symptoms have been noted following exposure. INHALATION: (Powder only) Inhalation of alloy powder may cause irritation of mucous membranes. Chronic respiratory ailments prolonged excessive exposure. INGESTION: Ingestion of alloy may cause GI tract irritation, nausea or diarrhea. TOXICITY: LD <sub>50</sub> >5000mg/kg.					
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	Moderate	(Powder only) May cause irritation upon contact. Irritation and possible corneal damage	Not Applicable
Skin	Material can cause irritation.	Single & Repeated	Moderate	Irritation or possible allergic response. Prolonged or repeated contact may cause irritation or allergic reaction. Avoid repeated contact with skin, chronic exposure may cause argyria (grayish blue pigmentation of the skin). No known serious toxic symptoms have been noted following exposure.	Not Applicable
Inhalation	Transitory upper respiratory irritation or eye irritation.	Single & Repeated	Moderate	(Powder only) Irritation and soreness in throat and nose. Inhalation of alloy powder may cause irritation of mucous membranes. Chronic respiratory ailments from prolonged excessive exposure.	Not Applicable
Ingestion	Material is probably not harmful if swallowed	Not Applicable	Mild	Ingestion of alloy may cause GI tract irritation, nausea or diarrhea. TOXICITY: LD <sub>50</sub> >5000mg/kg. Low order of toxicity is expected if material is ingested.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Medical Conditions Aggravated by Exposure: Skin contact by sensitive individuals may cause allergic reaction.					
Carcinogenicity: NTP?: Not listed IARC monographs?: No 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: None.					
NFPA Hazard Classification Ratings (Scale 0-4), Health = 1, Fire = 0, Reactivity = 0					

## Material Safety Data Sheet

## Caulk

4. First Aid Measures			
Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Immediately flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation or discomfort persists.	Not Applicable	Not Applicable
Skin	Wash thoroughly with soap and water.	Not Applicable	Not Applicable
Inhalation	Gently blow nose and irrigate with clean water. Consult physician if irritation persists.	Not Applicable	Not Applicable
Ingestion	If swallowed consult physician.	Not Applicable	Ingestion of alloy may cause GI tract irritation, nausea or diarrhea. TOXICITY: LD <sub>50</sub> >5000mg/kg. Low order of toxicity is expected if material is ingested.
Other	Not Applicable	Not Applicable	Not Applicable
Note to Physicians (Treating, Testing and Monitoring): N. A.			

5. Fire and Explosion Data			
Flashpoint Method: Not Applicable	Flammable (Explosive) Limits in Air LEL: Not Applicable UEL: Not Applicable	Autoignition Temperature: Not Applicable Product will not autoignite.	Other: Not Applicable
Flame Propagation or Burning Rate (for Solids) Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: Not Applicable	
Extinguishing Media: Use dry powder extinguishing media.		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: Large quantities of metal powder in air may cause a fire or explosion hazard due to dusting. Molten metal can ignite combustibles In common with most powdered materials; this product should be treated as a combustible dust in the finely divided and suspended state. No dangerous decomposition products known. In large quantities product may present an explosion hazard due to dusting.			

6. Accidental Release Measures		
Containment Techniques: Material is a grey metallic dry powder. Store only in the original package. The avoidance of any air contaminant is always a recommended practice. Adherence to work place ventilation standards is an assurance of general personnel health and comfort		
Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of drying out the skin. Ensure adequate ventilation, by either natural or mechanical means to keep dust level below PEL.		
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.	
Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a cool dry area. Store away from food and beverages. Minimize dust generation and accumulation. Avoid breathing dust and contact with eyes. Observe normal warehouse handling procedures. The avoidance of any air contaminant is always a recommended practice.	

8. Exposure Control / Personal Protection		
Ventilation: Ensure adequate ventilation, by either natural or mechanical means to keep dust level below PEL.		Other Engineering Controls: N. A.
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face	Safety Glasses	Not Applicable
Skin	The glove material has to be impermeable and resistant to the product.	Not Applicable
Inhalation	Use sufficient natural or mechanical ventilation to keep dust level below PEL.	Not Applicable
Body Protection	Protective work clothing such as lab coat.	Not Applicable
General Hygiene Considerations and Work Practices: Avoid dusting when in use. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. Do not eat, drink or smoke when using.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable		
Other Protective Measures and Equipment: Not Applicable		

9. Physical and Chemical Characteristics		
Appearance: Grey colored, dry metallic powder.		Odor: None
Normal Physical State: Metallic powder.		Melting Point: Approximately 970°C (1778°F)
Specific Gravity: 8.0 g/cm <sup>3</sup>	Solubility in Water: Not 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		

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**10. Stability and Reactivity Data**

Incompatibility (Materials to Avoid): Strong mineral acids, hydrogen peroxide, acetylene, and ethylenimine.	
Hazardous Products Produced During Decomposition: None.	
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 not considered hazardous. TOXICITY: LD <sub>50</sub> >5000mg/kg.
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**12. Ecological Information**

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Mercury is Toxic and Dangerous for the Environment. Do not allow Mercury to be released into streams or waterways.
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**13. Disposal Considerations**

Regulations: The product or individual components may be salvaged or reclaimed for reuse. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations. Pick up powder by carefully sweeping, vacuuming or wet mopping spilled material into an acceptable closed waste container. Avoid generating airborne dust.
Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

**14. Transport Information**

Regulated for Shipping: Yes	DOT Shipping Name: <i>Mercury contained in manufactured articles</i>	Packing Group: III
Do Changes in Quantities, packaging, or shipment method change product classification? Yes, Over 1 pound RQ – Reportable Quantity	DOT Hazard Class: 8	UN Number: 2809
DOT Labels Required (49CFR172.101): Yes, Over 1 pound RQ – Reportable Quantity, Corrosive Label	Other: N. A.	
IATA Shipping Name: <i>Mercury contained in manufactured articles</i>	IATA Hazard Class: 8	UN Number: 2809
IATA Hazard Labels Required: Reportable Quantity, Corrosive Label		
IMDG Shipping Name: <i>Mercury contained in manufactured articles</i>	IMDG Hazard Class: 8	UN Number: 2809
IMDG Hazard Labels Required: Yes, Over 1 pound RQ – Reportable Quantity, Corrosive Label		

**15. Regulatory Information**

<u>U.S. Federal Regulations: CERCLA 103 Reportable Quantity:</u> RQ is 1 pound for Mercury. Report spills required under federal, state and local regulations
<u>EPCRA 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): Mercury. The Reportable Quantity RQ is 1 pound for Mercury.
<u>EPCRA Section 302 Extremely Hazardous Substances EHS (TPQ):</u> None
<u>Clean Air Act section 112r:</u> Mercury is considered as a hazardous air pollutant. (HAP).
<u>Clean Water Act:</u> Mercury is not listed as a Hazardous Substance under the CWA. Mercury is listed as a Priority Pollutant under the CWA. Mercury is listed as a Toxic Pollutant under the CWA.
<u>OSHA:</u> OSHA does not consider Mercury highly hazardous.
<u>RCRA P – Series Hazardous Waste Code:</u> None Listed
<u>RCRA U-Series Hazardous Waste Code for Mercury:</u> U151
<u>EPA Toxic Substances Control Act (TSCA) Status:</u> Mercury (CAS# 7439-97-6) is listed on the TSCA inventory.
<u>State Regulations:</u> Mercury is on the following states Right to Know lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts.
<u>U.S. State Regulations California Proposition 65:</u> This product contains mercury, a chemical known to the State of California to cause birth defects or other reproductive harm.
<u>Canada – DSL/NDSL:</u> Mercury is listed on Canada's DSL List.
<u>Canada – WHMIS:</u> Mercury has a WHNIS classification of D2A, E. This chemical has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this MSDS contains all of the information required by those regulations.
<u>Canada Ingredient Disclosure List:</u> Mercury is listed on the Canadian Ingredient Disclosure List.
<u>Canadian Environmental Protection Act:</u> This product is a medical device and not subject to chemical notification requirements.
<u>European Community Labeling:</u> EC# 231-106-7 for Mercury. Mercury is Toxic and Dangerous for the Environment. R23 Toxic by Inhalation, R33 Danger of Cumulative Effects. R50/R53 Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. S1/2 Keep locked up and out of reach of children, S7 Keep container tightly closed, S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible), S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions on the MSDS.
<u>European Inventory of New and Existing Chemicals Substances (EINECS):</u> EC# 231-106-7 for Mercury.
Other: N. A.

**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.
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