

SAFETY DATA SHEETS

This SDS packet was issued with item:

074060729

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074059820 074059853 074060703 074060711 074060737 074060745 074060778 074060794 074060844 074060869
074062428 074062436 074062881 074062899 074062980 074062998 074063053 074063061 074063079 074063087
074063095 074063103 074063111 074063129 074063137 078281254 078281257 078281331 078281334 078281370
078281373 078281375 078281377 078281379 078281380 078281383 078281385

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

556899

1. Identification

Product Name Dispersalloy®	SDS Code Number 556899
Substance Identity Dispersalloy® Dispersed Phase Alloy (Capsules)	Date of Last Revision 05/13/10
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 Fast Set and Regular Set 1, 2, or 3 Spill	Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada) Dental Amalgam Filling Material	Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

2. Hazard(s) Identification

Warning

May be harmful if swallowed.

Call a Poison Center or Physician if you feel unwell.

3. Composition/Information on Ingredients

Hazardous Components	EC Number	C.A.S. Number	Exposure Limits	%
Silver	231-131-3	7440-22-4	0.1 mg/M ³	70
Tin	231-141-8	7440-31-5	2 mg/M ³	18
Copper	231-159-6	7440-50-8	1 mg/M ³	12

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 ₅₀ >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): 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. 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 exposure levels below PEL.		Other Engineering Controls: Not Applicable
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, resistant to the product and prevent skin exposure.	Not Applicable
Inhalation	Use sufficient natural or mechanical ventilation to keep vapor exposure level below PEL.	Not Applicable
Body Protection	Protective work clothing such as lab coat to prevent skin exposure.	Not Applicable
General Hygiene Considerations and Work Practices: 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 or may be formed into pellets.	Odor: None
Normal Physical State: Metallic powder or may be formed into pellets.	Melting Point: Approximately 970°C (1778°F)
Specific Gravity: 9.6 g/cm ³	Solubility in Water: Not soluble
Vapor Pressure (mm Hg): Not Applicable	pH: Not Applicable
Other: Not Applicable	Vapor Density (AIR=1) Not Applicable
	Evaporation Rate (Butyl Acetate =1) Not Applicable

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: LD₅₀ >5000mg/kg.

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Product not considered hazardous.

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: No	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
DOT Labels Required (49CFR172.101): Not Applicable		Other: 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; CERCLA 103 Reportable Quantity: None.

EPCRA 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.

EPCRA Section 302 Extremely Hazardous Substances EHS (TPQ): None

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

U.S. State Regulations California Proposition 65: None

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

European Community Labeling: Not Applicable.

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.

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.

MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Identification

1.1 Product Trade Name: **DISPERSALLOY® DISPERSED PHASE ALLOY (Capsules)**
1.2 Part (Item) Number: 656024-656027, 656261-656293, 65652861-6562893
All Package Configurations Containing Capsules
1.3 Division Name: DENTSPLY Caulk
1.4 Address: 38 West Clarke Avenue
City State Zip: Milford DE 19963-0359
Internet Address: <http://www.caulk.com>
1.5 Emergency Telephone Number: (800) 424-9300 (Chemtrec)
1.6 Telephone Number for Information: (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
1.7 Date Prepared: 11/02/98 Date Revised: 11/01/01

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components - Alloy	OSHA PEL	ACGIH TLV	CAS #	Percent
Silver	0.1 mg/m ³	0.1 mg/m ³	7440-22-4	70
Tin	2 mg/m ³	2 mg/m ³	7440-31-5	18
Copper	1 mg/m ³	1 mg/m ³	7440-50-8	12

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

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point: N. A. 3.6 Specific Gravity: 9.6 g/cm³
3.2 Vapor pressure: N. A. 3.7 Melting Point: Approx. 970°C
3.3 Vapor density: N. A. 3.8 Evaporation rate: N. A.
3.4 Solubility in water: Not Soluble
3.5 Appearance and odor: A metallic grayish free flowing powder with no odor.

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): N. A.
4.2 Flammability (explosive limits): LEL: N.A. UEL: N.A.
4.3 Extinguishing media: Use dry powder extinguishing media.
4.4 Special fire fighting procedures: Firefighters should wear full protective clothing including self contained breathing apparatus.
4.5 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.

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid (stability): Prolonged exposure to heat greater than 60°C. Contact with strong mineral acids will release flammable hydrogen gas.
5.3 Incompatibility (materials to avoid): Acetylene, hydrogen peroxide, ethylenimine or mineral acids.
5.4 Hazardous decomposition or byproducts: None
5.5 Hazardous polymerization: May occur: Will not occur: X
5.6 Conditions to avoid (polymerization): None

SECTION VI - Health Hazard Data

- 6.1 Route(s) of entry: Inhalation?: Yes Skin?: Possible Ingestion?: Yes
- 6.2 Health hazards (acute and chronic): 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: (LD₅₀, LC₅₀, etc.) >5000mg/kg.
- 6.3 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.
- 6.4 Signs and symptoms of exposure: EYES: (Powder only) Slight reddening of the eyes. May temporarily irritate the eyes. SKIN: Fine alloy powder may temporarily irritate the skin. Avoid repeated contact with skin, INHALATION: (Powder only) Inhalation of alloy powder may cause irritation of mucous membranes. INGESTION: Ingestion of alloy may cause GI tract irritation, nausea or diarrhea. Not hazardous when ingested.
- 6.5 Medical conditions generally aggravated by exposure: Skin contact by sensitive individuals may cause allergic reaction.
- 6.6 Emergency first aid procedures: EYES: Immediately flush eyes with copious amounts of water for 15 minutes. Seek medical attention if irritation or discomfort persists. SKIN: Wash thoroughly with soap and water. INHALATION: Gently blow nose and irrigate with clean water. Consult physician if irritation persists. INGESTION: If swallowed, seek medical attention.

SECTION VII - Precautions for Safe Handling and Use

- 7.1 Steps to be taken in case material is released or spilled: Provide exhaust ventilation when possible. Pick up powder by carefully sweeping, vacuuming or wet mopping spilled material into an acceptable waste container. Avoid generating airborne dust.
- 7.2 Waste disposal methods: The product or individual components may be salvaged or reclaimed for reuse. Waste material may be disposed of in accordance with Federal, State and Local regulations.
- 7.3 Precautions to be taken in handling and storage: Observe normal warehouse handling procedures. Store in a cool dry area. Store away from foodstuffs and beverages. Avoid contact or generation of dust.
- 7.4 Other precautions: None known. Handling of this product should be by trained dental healthcare professionals only.

SECTION VIII - Control Measures/ Personal Protection

- 8.1 Respiratory protection: NIOSH approved respirators are required when concentrations of dust and/or fumes exceed TLV.
- 8.2 Ventilation: Local exhaust
- 8.3 Protective gloves: Rubber gloves.
- 8.4 Eye protection: Safety glasses.
- 8.5 Other protective clothing or equipment: Rubber apron.
- 8.6 Work/Hygienic practices: Observe normal care when working with chemicals. Handling of this product should be by trained dental healthcare professionals only.

NFPA HAZARD CLASSIFICATIONS

Health	1
Flammability	0
Reactivity	0
Specific Hazard	N. A.

NFPA - National Fire Protection Association

N.A. - Not Applicable

N.E. - Not Established

556899 (R-11/01/01)

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

556899

1. Identification

Product Name Dispersalloy®	SDS Code Number 556899
Substance Identity Dispersalloy® Dispersed Phase Alloy (Capsules)	Date of Last Revision 05/9/13
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 Fast Set and Regular Set 1, 2, or 3 Spill	Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada) Dental Amalgam Filling Material	Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

2. Hazard(s) Identification

Warning

May be harmful if swallowed.

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Copper	231-159-6	7440-50-8	1 mg/M ³	12

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 ₅₀ >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): 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. 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 exposure levels below PEL.		Other Engineering Controls: Not Applicable
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, resistant to the product and prevent skin exposure.	Not Applicable
Inhalation	Use sufficient natural or mechanical ventilation to keep vapor exposure level below PEL.	Not Applicable
Body Protection	Protective work clothing such as lab coat to prevent skin exposure.	Not Applicable
General Hygiene Considerations and Work Practices: 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 or may be formed into pellets.	Odor: None
Normal Physical State: Metallic powder or may be formed into pellets.	Melting Point: Approximately 970°C (1778°F)
Specific Gravity: 9.6 g/cm ³	Solubility in Water: Not soluble
Vapor Pressure (mm Hg): Not Applicable	pH: 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): 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 ₅₀ >5000mg/kg.

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Product not considered hazardous.
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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: No	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
DOT Labels Required (49CFR172.101): Not Applicable		Other: 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: CERCLA 103 Reportable Quantity: None.
EPCRA 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.
EPCRA Section 302 Extremely Hazardous Substances EHS (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components are listed on the TSCA inventory.
U.S. State Regulations California Proposition 65: None
Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.
European Community Labeling: Not Applicable.
European Inventory of New and Existing Chemical 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.

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.