

DENTSPLY Tulsa Dental

1. Product and Company Identification	
Product Name Calamus™ Singles Cartridge Cannula	MSDS Code Number N/A
Trade Name & Synonyms Coin silver	Date of Last Revision January 2005
Chemical Name Silver alloy	Manufacturer Handy & Harman of Canada, Limited
C.A.S. Number N/A	Address 290 Carlingview Drive, Rexdale, Ontario, Canada M9W 5G1
Grades or Minor Variant Identities N/A	Information Telephone Number 416-675-1860
Product Use (for Canada) Delivery system for warm gutta-percha during root canal therapy.	Emergency Telephone Number 1-800-424-9300 (spill, leak, fire, exposure or accident)

2. Composition of Ingredients			
Hazardous Components	C.A.S. Number	Exposure Limits	%
Coin Silver	7440-22-4	0.01 mg/m ³ TWA	90
Copper	7440-50-8	0.1 mg/m ³ TWA (fume) 1.0 mg/m ³ TWA (dust)	10

3. Hazard Identification					
Emergency Overview N/A					
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	Irritation, redness, itching, Argyria	Single	Mild	Acute- Irritation, redness, itching Chronic- Argyria	Eyes
Skin	Irritation, Argyria, discoloration	Repeated	Mild	Acute- Irritation Chronic- Argyria, discoloration	Dermal
Inhalation	Chills, fever, aching muscles, sneezing, dry throat, coughing, constriction of throat, nausea, irritation of nose & trachea, discoloration of mucus membranes, difficulty breathing, chest pain, headache, metallic taste, failure of kidneys to produce urine	Repeated	Moderate/Severe	Acute- Chills, fever, aching muscles, sneezing, dry throat, coughing, constriction of throat, nausea, irritation of nose & trachea, discoloration of mucus membranes, difficulty breathing, chest pain, headache, metallic taste, failure of kidneys to produce urine Chronic- Cough, difficulty breathing, argyria, laryngitis, discoloration of mucus membranes	Respiratory, kidneys
Ingestion	Gastric Irritation, vomiting, abdominal pain, hemorrhage or diarrhea	Single	Moderate	N/A	Gastric tract
Medical Conditions Aggravated by Exposure Pre-existing pulmonary diseases (e.g. bronchitis, emphysema) may be aggravated by inhalation exposure, particularly as fume. Skin disorders.					
Carcinogenicity (IARC, NTP) None of the listed components are classified as potential or demonstrated human carcinogens					
Potential Environmental Effects					

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This product contains the following toxic chemicals, Silver and Copper that are subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know act (EPCRA) of 1986 and 40 CFR 372.

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush irritated area	Contact physician for treatment.	Possible sight loss
Skin	Contact in solid forms is not known to be hazardous	N/A	N/A
Inhalation	Move to well ventilated area, administer oxygen if breathing is labored.	Contact physician for treatment.	Possible affixation
Ingestion	Give large amounts of water and induce vomiting	Contact physician for treatment.	Unconsciousness, convulsions
Other	N/A	N/A	N/A
Note to Physicians (Treatment, Testing and Monitoring)			
N/A			

5. Fire and Explosion Data

Flashpoint Method: Solid metal, nonflammable	Flammable (Explosive) Limits in Air LEL N/A UEL N/A	Autoignition Temperature N/A	Other N/A
Flame Propagation or Burning Rate (for solids) N/A	Properties Contributing to Fire Intensity N/A	Flammability Classification N/A	
Extinguishing Media Dry Powder	Extinguishing Media to Avoid None		
Protection and Procedures for Firefighters Fireman should wear approved self contained breathing apparatus when extinguishing fire.			
Unusual Fire and Explosion Hazards N/A			

6. Accidental Release Measures

Containment Techniques N/A
Spill/Leak Clean-Up Procedures and Equipment Dispose of material in accordance with federal, state and local regulations.
Evacuation Procedures N/A
Special Instructions N/A
Reporting Requirements N/A

7. Handling and Storage

Handling Practices and Warnings Explosive compound may form if reacted with acetylene or nitric acid in the presence of ethyl alcohol, ethyleniamine or hydrogen peroxide. Incompatible with ammonia, bromoazide, chlorine trifluorine, oxalic acid, sulfuric acid, tartaric acid, ammonium nitrate, sodium/potassium peroxides, azides, chlorate, bromate, iodate salts of alkali and alkali earth metals, lithium and oxygen difluoride.
Storage Practices and Warnings Avoid storage near incompatible material (see above)

8. Exposure Control/Personal Protection

Ventilation Use in a well ventilated area	Other Engineering Controls Wash hands after contact	
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:

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Eyes/Face Eyes	Safety glasses	Same
Skin	Gloves	Same
Inhalation	N/A	Approved self contained breathing apparatus
General Hygiene Considerations and Work Practices Observe good housekeeping and personal hygiene practices		
Protective Measures During Repair and Maintenance of Contaminated Equipment N/A		
Other Protective Measures and Equipment N/A		

9. Physical and Chemical Characteristics

Appearance Solid, silver in color	Odor None	
Normal Physical State: Liquid Gas √ Solid Other	Boiling Point N/A Melting Point 1615° C Freezing Point N/A	
Specific Gravity or Density 10.31	Solubility in Water insoluble	pH N/A
Vapor Pressure N/A	Vapor Density N/A	Evaporation Acetate N/A
Other N/A		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) acetylene or nitric acid in the presence of ethyl alcohol, ammonia, bromoazide, chlorine trifluorine, oxalic acid, sulfuric acid, tartaric acid, ammonium nitrate, sodium/potassium peroxides, azides, chlorate, bromate, iodate salts of alkali and alkali earth metals, lithium and oxygen difluoride		
Hazardous Products Produced During Decomposition Hazardous polymerization will not occur at normal temperatures and pressures		
Hazardous Polymerization? May Occur √ May Not Occur	Conditions to Avoid None known	
Stability? √ Stable Unstable	Conditions to Avoid Overheating	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects or Structure Activity Data In solid form, materials are not known to be hazardous
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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements None Known
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13. Disposal Considerations

Regulations Dispose of material in accordance with federal, state and local regulations.
Properties (Physical/Chemical) Altering Disposal None known

14. Transport Information

Regulated for shipping? Yes √ No	Proper Shipping Name Coin silver	Packaging Group N/A
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Do changes in quantity, packaging or shipment method change product classification? Yes <input checked="" type="checkbox"/> No	Hazard Class None hazardous	Identification Number N/A
Other N/A		

15. Regulatory Information

Federal Regulations 29CFR Part 1910.1200(g), SARA Title III section 313, 40 CFR 372, EPCRA
International Regulations: ISO/DIS 11014
Other N/A

16. Other Information

N/A
