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## PRODUCT SAFETY DATA SHEET

Product: Dental Lathe Metal Centre Brushes with plastic insert  
Classification: Non-Medical Device

### Schedule of products (Ref):

MCP001	METAL CENTRE PLASTIC INSERT BLACK HH 25 X 50
MCP002	METAL CENTRE PLASTIC INSERT GREY/WHITE HH 25 X 50
MCP003	METAL CENTRE PLASTIC INSERT GOAT HAIR CALICO INSERT 25 X 50
MCP005	METAL CENTRE PLASTIC INSERT BLACK HH CALICO INSERT 25 X 50

**Description:** Dental lathe Metal Centre brushes with plastic insert are used in the laboratory by the dental technician for polishing dental prosthetics, dentures etc. They are generally made of a 6-part component/material construction, comprising of an injection moulded plastic insert centre in a brass and nickel plated eyelet which holds a retaining ring, which contains Natural Black Horsehair.

### Component 1: Plastic insert

Ref: COM012C

**Description:** Circular Plastic insert injection moulded polyethylene (low density).

### **Composition:**

Chemical name: Ethylene homopolymer (PE-LD)  
CAS No. 9002-88-4  
Less than 1% colorants

### **Physical data:**

Auto ignition temp: 340°C  
Melting point: 100-125°C  
Solubility in water: > None  
Evaporation rate: Not applicable  
Specific gravity: Not applicable  
Stability: Stable  
Colour: Natural, Blue, White, Orange, Green, Yellow.  
Odour: None

### **Fire and explosion data:**

Flash point (method) not applicable  
Flash ignition temp: > 340°C  
Extinguishing media: Agents approved for Class A hazards e.g. foam, steam or water fog.  
Special fire fighting instructions: Firefighters should wear full bunker gear, including a positive pressure self contained breathing apparatus.

### **Health hazard information:**

Polyethylene is not a hazardous material in solid form.  
Ingestion: Not a probable route of exposure  
Inhalation: Irrespirable in solid form

## Product Safety Data Sheets

### Hazardous reactivity:

Stability: Stable  
Incompatibility: Strong acids, bases oxidising agents  
Decomposition products: Burning can produce carbon monoxide and or carbon dioxide. Thermal degradation begins at 330 °C.

### Disposal procedures:

Aquatic toxicity: Very low toxicity  
Spill or leak: Sweep up to prevent slipping hazard  
Waste disposal: Incinerate or landfill in compliance with federal state & local regulations. Recycling is recommended

### Special protection information:

Ventilation: local exhaust at processing equipment to keep particulate below 15mg/m<sup>3</sup>  
(OSHA limit for particulates not otherwise regulated)

### Personal protection equipment:

Eyes: Safety glasses  
Gloves: None under normal processing  
Respirator: Not applicable

### Component 2: Metal Centre Ferrule (Brass unplated)

Ref: COM013A

**Description:** The component parts Metal Centre Ferrule are metal pressings composed of brass CuZn30 .

### Raw Material Composition Ref: CTP

Copper: 0.00 – 71.00 %  
Tin: 0.00 – 0.10 %  
Iron: 0.00 – 0.05 %  
Aluminium: 0.00 – 0.02 %  
Zinc: 0.00 – 31.00 %  
Nickel: 0.00 – 0.30 %  
Lead: 0.00 – 0.05 %

**Surface Treatment:** Bright Nickel Plated Nickel (Ni) Test Result 99.97%, 1.0 – 2.0 microns.

This material may also contain trace elements, which are non-hazardous or non-hazardous at the levels of inclusion.

### Physical data:

Physical state: Solid  
Colour: Natural bright metallic  
Odour: None  
Evaporation rate: Not applicable  
Specific gravity: Not applicable  
Solubility in water: Insoluble  
Hardness: HV 080

### Component 3: Metal Centre Disc (side plate)

Ref: COM011A

### Component 4: Metal Centre Ring

Ref: COM012G

**Description:** The component parts Metal Centre disc (side Plate) and retention Ring are metal pressings composed of Steel and surface treatment bright nickel-plated.

## Product Safety Data Sheets

### Raw Material Composition:

#### Chemical Analysis %

Iron FE	98.00 - 99 %
Manganese	0.25 – 2.0 %

**Surface Treatment:** Bright Nickel Plated Nickel (Ni) - 99.97%

This material may also contain trace elements, which are non-hazardous or non-hazardous at the levels of inclusion.

### Physical data:

Physical state:	Solid
Colour:	Natural bright metallic
Odour:	None
Evaporation rate:	Not applicable
Specific gravity:	7.6 – 7.8
Solubility in water:	Insoluble
Melting point:	2800°C

### Health hazard information:

Not considered hazardous to health.

Ingestion:	Accidental ingestion is not harmful or a probable route of exposure
Inhalation:	Not respirable
Allergy:	Low risk from transient use.

### Hazardous reactivity:

Stability:	Stable
Incompatibility:	Strong acids, bases oxidising agents.

### First aid measures (in case of):

Inhalation:	There are no poisoning risks.
Skin contact:	Do not use in case of a specific allergy. In case of permanent irritation, call for physician.
Contact with eyes:	In case of accident or accidental contact with the moving instrument call for physician.

### Fire and explosion data:

Extinguishing media:	Atomised water jet, carbon dioxide foam, dry chemicals
Special fire fighting instructions:	None

**Accidental dispersion:** May be swept up or mechanically collected.

**Handling and Storage:** Store dry at room temperature away from light. Avoid temperature > 70°

### Disposal procedures:

Aquatic toxicity:	Very low toxicity
Spill or leak:	Sweep up to prevent slipping hazard
Waste disposal:	Incinerate or landfill in compliance with federal, state & local Regulations. Recycling is recommended.

**Transportation:** The product should be transported in original containers to avoid damage or Leakage. Keep containers dry.

### Stability and reactivity:

Chemical stability:	Stable at normal temperature and storage conditions.
Incompatibility with other materials:	None reasonable or foreseeable
Hazardous decomposition products:	Decomposition will not occur

**Hazardous polymerisation:** Polymerisation will not occur.

## Product Safety Data Sheets

**Handling and Storage:** There are no specific handling requirements, store in clean dry conditions at room temperature.

**Toxicology:** There is no toxicological data specific to this product.

### **Waste Disposal:**

Waste is not harmful. The handling, storage, transportation and disposal are generally performed similarly to those of other general wastes designated by the nation or local government. Do not wash off with water or flush to drains because material is principally non-biodegradable.

This product may be Incinerated or landfill in compliance with local and national regulations.

Recycling is recommended.

### **Fire and explosion data:**

Flash point (method): Not applicable, Flash ignition temp: not applicable,

Extinguishing media: Water, carbon dioxide foam, dry chemicals.

Special fire fighting instructions: None

### **Health hazard information:**

Brass in solid wire form is not hazardous to health.

Ingestion: Not a probable route of exposure

Inhalation: Not respirable

### **Hazardous reactivity:**

Stability: Stable

Conditions to avoid: Heating above 340°C

Incompatibility: Strong acids, bases and oxidising agents.

### **Component: (Fill Material Natural Horsehair) for:**

**Material description:** Natural Horsehair. (Black & Grey White)

**Specification:** Processed to standard GB8211-87 Washed and boiled for not less than 4 hours

**Composition:** 100 % Natural Horsehair is animal (Horse) hair primarily composed of the protein Keratin which contains a disulphide bond (two atoms of sulphur) with trace elements of hydrogen, oxygen, and nitrogen. These trace elements are non-hazardous or non-hazardous at the levels of inclusion.

### **Physical data:**

**Colour:** Natural Black or Grey/white.

**Kind of animal:** Horse.

**Part of animal used:** Hair from back, Neck and Tail.

**PH:** Neutral.

**Physical state:** Solid

**Melting point:** Not applicable

**Boiling point:** Not applicable

**Solubility in water:** Insoluble

**Evaporation rate:** Not applicable

**Odour:** Mild

**Eventual declared toxicity:** None.

**Disinfection and veterinary certified:** By chief veterinarian of relevant regional Import and Export Inspection Bureau.

**Sterilisation:** All component bristle is supplied boiled and is certified as having been disinfected by boiling at 100°C for at least 2 Hours.

**Handling and Storage:** Store dry at room temperature away from light. Avoid temperature > 70° keep in original sealed polythene sleeves to prevent moth damage

## Product Safety Data Sheets

**Health hazard information:** Non hazardous to health – hair derived from Horses which on inspection were certified to be healthy before and after slaughter, originated from non-epizootic area and when tested no evidence of B.Anthraces was found.

Ingestion: Accidental ingestion is not harmful or a probable route of exposure  
Inhalation: Not respirable  
Allergy: Low risk from transient use.

**Hazardous reactivity:**

Stability: Stable  
Incompatibility: Strong acids, bases oxidising agents

**First aid measures (in case of):**

Inhalation: There are no poisoning risks.  
Skin contact: Do not use in case of a specific allergy. In case of permanent irritation, call for physician.  
Contact with eyes: In case of accident or accidental contact with the moving instrument call for physician.

**Fire and explosion data:**

**Reaction of fire:** Combustible.  
Extinguishing media: Atomised water jet, carbon dioxide foam, dry chemicals  
Special fire fighting instructions: None

**Accidental dispersion:** May be swept up or mechanically collected.

**Disposal procedures:**

Aquatic toxicity: Very low toxicity  
Spill or leak: Sweep up to prevent slipping hazard  
Waste disposal: Incinerate or landfill in compliance with federal, state & local Regulations.

**Component (fill material) for:**

**Material Description:** Calico (cotton) interleave

**Material Description:** Woven Cotton thread, calico cloth

**Composition:** Purified spun cotton is almost 100% pure cellulose. Produced from the hairs of the seed of *Gossypium herbaceum*, Linné, and of other species of *Gossypium* (Nat. Ord.—Malvaceae), freed from adhering impurities and deprived of tatty matter. This material may also contain trace elements that are non hazardous or non hazardous at the levels of inclusion.

**Properties:** Highly combustible, is not soluble in alcohol, water, ether, oils, or vegetable acids; weak alkaline liquids have no perceptible action on it but when very strong they dissolve it by the aid of heat.

**Physical data:**

Physical state: Solid  
Melting point: Not applicable  
Boiling point: Not applicable  
Solubility in water: Insoluble  
Evaporation rate: Not applicable  
Odour: Mild

**Colour and Description:** It is officially described as White, soft, fine filaments, appearing under the microscope as hollow, flattened and twisted bands, spirally striate, and slightly thickened at the edges; inodorous and tasteless; insoluble in ordinary solvents.

## Product Safety Data Sheets

**Source and Preparation:** Cotton thread may be prepared from raw cotton by "*mercerizing*", by boiling with weak solutions of alkalis. A fatty material of cotton soap is formed which is removed by repeatedly washing the cotton with water. Carded cotton is boiled for one-half hour in diluted solution (5 per cent) of caustic potash (or caustic soda). The soap formed is thoroughly washed out. The cotton is then expressed and again boiled for 15 or 20 minutes with the diluted (5 per cent) alkali (hydroxide of potassium or sodium), washed again with water, next with acidulated water, and lastly with water. The cotton is then expressed and dried rapidly. It requires two boilings with alkalis to completely remove the fats. This material is then spun into thread.

### **Stability and reactivity:**

Eventual Declared Toxicity:	None
P.H.:	Neutral
Chemical stability:	Stable at normal temperature and storage conditions.
Incompatibility with other materials:	None reasonable or foreseeable
Hazardous decomposition products:	Decomposition will not occur

**Hazardous polymerisation:** Polymerisation will not occur

**Handling and Storage:** There are no specific handling requirements, store in clean dry conditions at room temperature.

**Toxicology:** There is no toxicological data specific to this product.

### **Waste Disposal:**

Waste is not harmful. The handling, storage, transportation and disposal are generally performed similarly to those of other general wastes designated by the nation or local government. Do not wash off with water or flush to drains because material is principally non-biodegradable.

This product may be Incinerated or landfill in compliance with local and national regulations.

Recycling is recommended.

### **Fire and explosion data:**

Cotton is highly combustible.

Extinguishing media: Water, carbon dioxide foam, and dry chemicals.

Special fire fighting instructions: None

**Health hazard information:** Calico Cotton in solid form is not hazardous to health.

### **Component (fill material) for:**

**Material description:** Natural Goat Hair (White)

**Composition:** 100 % Natural animal (Goat) hair primarily composed of the protein Keratin which contains a disulphide bond (two atoms of sulphur) with trace elements of hydrogen, oxygen, and nitrogen. These trace elements are non-hazardous or non-hazardous at the levels of inclusion.

### **Physical data:**

<b>Colour:</b>	White
<b>Type of animal:</b>	Goat.
<b>Part of animal used:</b>	Hair from back.
<b>PH:</b>	Neutral.
<b>Physical state:</b>	Solid
<b>Melting point:</b>	Not applicable
<b>Boiling point:</b>	Not applicable
<b>Solubility in water:</b>	Insoluble
<b>Evaporation rate:</b>	Not applicable
<b>Odour:</b>	Mild
<b>Eventual declared toxicity:</b>	None.

**Disinfection and veterinary certified:** By chief veterinarian of relevant regional Import and Export Inspection Bureau.

## Product Safety Data Sheets

**Sterilisation:** All component goat hair is supplied boiled and is certified as having been disinfected by boiling at 100°C for at least 4 Hours.

**Handling and Storage:** Store dry at room temperature away from light. Avoid temperature > 70° keep in original sealed polythene sleeves to prevent moth damage

**Health hazard information:** Non hazardous to health – Animal hair derived from goats which on inspection were certified to be healthy before and after slaughter, originated from non-epizootic area and when tested no evidence of B.Anthraces was found.

Ingestion: Accidental ingestion is not harmful or a probable route of exposure  
Inhalation: Not respirable  
Allergy: Low risk from transient use.

**Hazardous reactivity:**

Stability: Stable  
Incompatibility: Strong acids, bases oxidising agents

**First aid measures (in case of):**

Inhalation: There are no poisoning risks.  
Skin contact: Do not use in case of a specific allergy. In case of permanent irritation, call for physician.  
Contact with eyes: In case of accident or accidental contact with the moving instrument call for physician.

**Fire and explosion data:**

Reaction of fire: Combustible.  
Extinguishing media: Atomised water jet, carbon dioxide foam, dry chemicals  
Special fire fighting instructions: None

**Accidental dispersion:** May be swept up or mechanically collected.

**Disposal procedures:**

Aquatic toxicity: Very low toxicity  
Spill or leak: Sweep up to prevent slipping hazard  
Waste disposal: Incinerate or landfill in compliance with local Regulations. Recycling is recommended.

**DISCLAIMER OF LIABILITY**

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