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PRODUCT SAFETY DATA SHEET

Product: Dental Lathe Brushes (bristle filled, plastic hub)

Classification: Non-Medical Device

Description: Dental lathe brushes are used in the laboratory by the dental technician for polishing dental prosthetics, dentures etc. They are generally made of a 3-part component/material construction, comprising of an injection moulded plastic hub, which is automatically drilled and filled (staple set) with natural black bristle. The range including Ref P086 is also interleaved with additional layers of calico.

Component 1: Plastic hub

Description: Circular Plastic Hub (Lathe Brush) 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 or Yellow.

Odour: None

Component 1: Circular Plastic Hub (Lathe Brush) injection moulded polyethylene (low density).

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: Irrrespirable in solid form

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.

Product Safety Data Sheets

Disposal procedures:

Aquatic toxicity: No 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/m³
(OSHA limit for particulates not otherwise regulated)

Personal protection equipment:

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

Component 2: Staple set retention wire.

Material description: staple set retention wire (galvanised steel anchor wire) 0.6mm .024" galvanised 15kg per reel Ref: WIR018A

Composition:

Steel: 99.3 %
Carbon: < 0.10 %
Silicon: < 0.10 %
Manganese: < 0.50 %

Surface Treatment: Pure Zinc 99.9% to BS 3382 and BS1706

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

Physical Data:

Colour: Metallic / natural
Odour: None
Solubility in water: Insoluble
Evaporation rate: Not applicable
Physical state: Solid
Stability: Stable

Handling and Storage: Store dry at room temperature away from light this material is stable under normal ambient storage conditions.

For the purpose of this statement normal ambient storage conditions range from -10°C to 45°C and from 0-90% relative humidity.

Fire and explosion data:

Flash point (method): Not applicable
Extinguishing media: Water, carbon dioxide foam, dry chemicals
Special fire fighting instructions: None

Health hazard information:

In solid form is not hazardous to health.

Disposal procedures:

Aquatic toxicity: No 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

Product Safety Data Sheets

Special protection information:

Ventilation: local exhaust at processing equipment to keep particulate below 15mg/m³ (OSHA limit for particulates not otherwise regulated)

Product: Fill material (Natural Bristle)

Material description: Natural bristle. (Black or White)

Specification: Processed to bristle standard GB8211-87 and boiled (Triple boiled) for not less than a total of 2 hours.

Composition: 100 % Natural bristle is animal (Pig, Hog or Boar) 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:	Bleached white, black, spotty, grey and natural white.
Type of animal:	Hog, pig or boar.
Part of animal used:	Hair from back.
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 the 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 not less than a total of 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

Health hazard information: Non hazardous to health – hair derived from pigs 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:	No 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

Product Safety Data Sheets

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.
Recycling is recommended

Component (fill material) for:

P078	LATHE BRUSH 4X40X80
P086	LATHE BRUSH 3X40X80
P088	LATHE BRUSH 2X40X80
P090	LATHE BRUSH 2X25X55

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.

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.

Product Safety Data Sheets

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.

DISCLAIMER OF LIABILITY

The information in this PSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This PSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this PSDS information may not be applicable.

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