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SAFETY DATA SHEET

Bestdent Dental Amalgam Capsules Ag 40,3

1.0 PREPARATION / COMPANY NAME

World Work Dental Amalgam Capsules Ag 40,3 1.1 Preparation name

WORLD - WORK srl Company name Via del Progresso, 47

36054 Montebello Vicentino (VI) tel. 0444/574297 fax 0444/370543

e-mail: info@worldwork.it

Filling cavitated teeth by dental professionals 1.3 Recommended use **Emergency contact number** Contact the nearest Poison Information Centre

2.0 HAZARD IDENTIFICATION

: T; R23 R33, N; R50/53 2.1 **Preparation classification** Means of introduction : Percutaneous: YES

Inhalation: YES

Swallowing (accidental): YES

2.3 Effect and symptoms

Acute effects dose-dependent : Skin: irritation, sensitization

> Oral cavity: irritation, gingivostomatitis Lungs: irritation, chemical pneumonia Urogenital apparatus: kidney damage

Chronic effects Skin: irritation, sensitization

Nervous system: erethism, anorexia, tremors, ataxy, polyneuropathy, optic nerve atrophy

Eyes: cataract Urogenital apparatus: kidney damage

and : Cancerogenous, Mutagenic Cancerogenous effects - IARC: group 3

Reproductive Toxicity effects Cancerogenous effects - ACGIH: group A4

Cancerogenous effects - DFG: category 3B

The preparation is currently not classified for mutagenic and reproductive toxicity effects. Mutagenic effects have not been demonstrated. Experimental reproductive toxicity studies described at point 11 which currently do not modify classification are available for this preparation.

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cas N°	EINECS N°	Content %	S Phrases	R Phrases
Mercury, Hg	7439-97-6	231-106-7	50	Т	R23-33-50/53
Silver, Ag	7440-22-4	231-131-3	22		
Tin, Sn	7440-31-5	231-141-8	15		
Copper, Cu	7440-50-8	231-159-6	13		

4.0 FIRST AID MEASURES

4.1 If inhaled Move infected persons to fresh air and leave them to rest; seek medical attention

4.2 If ingested Remove the material from the pharynx (from the mouth) without causing vomiting; seek medical

attention

4.3 On skin contact Wash skin with neutral soap and water.

In cases of permanent irritation, seek medical attention.

On contact with eyes Wash with plenty of water, keeping the eyelids well opened.

In cases of permanent irritation, seek medical attention.

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5.0 FIRE FIGHTING MEASURES

: Remove the containers from the danger area without creating risks if possible. 5.1 General and/or Various

Contain and collect the extinguishing water for subsequent disposal

5.2 Suitable extinguishing media

Select the correct extinguisher on the basis of the source of the flammable mixture.

Special danger of exposure from the : combustion or gas produces that are created by the substance or preparation

Distance containers from the adjacent fire if possible or cool them. If exposed to heat or directly involved in the fire, same containers can create toxic smoke

The preparation can cause pollution if dispersed.

5.4 Special protective equipment

Wear:

- self-contained breathing apparatus

- full protective clothing made up of helmet with visor and neck protection, fireproof jacket and trousers with reflective bands around the arms, legs and waist.

For anything not contained in this point, refer to point 8 of this sheet.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions Small spills and leaks:

> Guarantee exchange ventilation or other control instruments for maintaining the concentrations of vapour moved by the air below the respective limits of professional exposure

Large spills and leaks:

wear mask with respirator before approaching the spill area.

Stop the leak if doing so does not cause risks.

Distance those people who are not involved in emergency interventions from the spill area.

Whenever possible work above wind.

Ventilate areas involved in the spill in a suitable manner.

For information information not contained in this point regarding the recommended

protective equipment, refer to point 8 of this sheet.

systems and operative procedures must be used that stop the product from reaching sewerage 6.2 Environmental precautions systems, wells or waterways.

> mechanically collect the released material, which must subsequently be taken to centres authorised for collection of the resulting waste.

Wash flooring with calcium sulphide after having collected the spill. Place the collected material in clean and labelled containers.

Neutralise with calcium sulphide or sodium thiosulphate. Wherever possible use suitable suction kits that exist on the market.

If necessary, begin restoration procedures as indicated in Italian Legislative Decree 152/2006, part

Do not use cleaning products with a strong oxidant base.

7.0 HANDLING AND STORAGE

Restoration methods

Ventilation is necessary when using and handling the product. 7.1 Handling

Avoid direct contact with the mercury.

Prevent exposure to mercury vapour and amalgam residues.

Ensure the areas where amalgam plugs are removed have enough suction, use suitable cooling

methods, and protect mouth and eyes.

The composite must be equipped with an amalgam separator. Follow laws in force regarding the

type and system of same separator and the handling of amalgam waste.

Excess amalgam must be stored in a suitable closed container for mercury containing fixing

substances.

Preserve in the original closed containers, in a protected and ventilated area, at a temperature of

not more than 25 °C. Expiry date: 5 years from production date at the above indicated conditions.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

: Do not eat or drink or smoke in the work area. 8.1 <u>Information and general measures</u> 8.2 S phrases

S 1/2: Keep locked up and out of the reach of children

S 7: Keep container tightly closed

S 9: Keep container in a well-ventilated place

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60: This material and its container must be disposed of as hazardous waste.

S 61: Avoid release to the environment. Refer to special instructions/safety data sheets

Personal protection

7.2 Storage

Breathing apparatus Use with suitable ventilation

Skin and body Laboratory coat Hands **PVC** gloves Protective goggles Eves

8.4 Work exposure limits TWA 0.02 mg/m³ 8 hour (e)

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9.0 PHYSICAL AND CHEMICAL PROPERTIES

 9.1
 Form
 : Liquid

 9.2
 Colour
 : Metallic grey

 9.3
 Odour
 : Odourless

 9.4
 Boiling point
 : 356 °C

 9.5
 Vapour pressure
 : 0.26 Pa at 20

9.5 0.26 Pa at 20 °C Vapour pressure 9.6 13.5 g/cm³ Density at 25 °C 9.7 6.9 (air = 1)Vapour density not determined 9.8 Viscosity at 25° C (mPas) 9.9 Solubility in water not soluble 9.10 <u>pH</u> : not applicable 9.11 Flash point (°C) not flammable 9.12 Self-flammability : not applicable

The alloy and the mercury are packed separately in capsules.

10.0 STABILITY AND REACTIVITY

10.1 Conditions to avoid : Conserve away from heat sources in a ventilated area
 10.2 Material / substances to avoid : Attacks aluminium and many metals, forming amalgams

Ammonia and halogens

Lithium, rubidium, chlorine dioxide, methyl azide, ethylene oxide, oxidants, oxygen,

tetracarbonylnickel

10.3 <u>Hazardous decomposition products</u> : When heated develops highly toxic smoke

11.0 TOXICOLOGICAL INFORMATION

11.1 Acute toxicology : The bond for amalgam and mercury are pre-dosed in closed capsules; the danger of exposure to

mercury vapours is low.

Do not open or damage the capsules before they are vibrated.

Toxic by inhalation

11.2 Long-term toxicology : Acute exposure to mercury vapours may cause serious acute intoxication with lung symptoms and

neurological symptoms.

Exposure can cause allergy to the amalgam.

11.3 Other information : Pregnant women must not be exposed to mercury.

12.0 ECOLOGICAL INFORMATION

This product must not enter effluent water, ground water or the soil.

13.0 DISPOSAL CONSIDERATIONS

13.1 Disposal methods : The methods for handling waste must be evaluated case by case according to the waste matter

itself and in compliance with what is indicated by Community standards and national laws in force. When handling waste and in cases of accidental waste spills, follow the indications given in points 6 and 7; care and specific actions must in any case be evaluated according to the waste matter. In compliance with the 91/689/EEC Directive, the substance must be classified as hazardous waste

when spilled.

13.2 <u>European refuse catalogue</u> : 18 01 10* waste of amalgam produced by odontoiatric interventions

13.3 Refuse danger class : H 6 "Toxic" H 14"Ecotoxic"

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14.0 TRANSPORT INFORMATION

Official designation for transport: Mercury

UN number: 2809
Class or division: 8
Subsidiary risks: none
Packing group: III

Danger identification number: 80ONU special prescriptions: none

As a general rule, follow Italian Ministerial Decree of 22 February 1990, ONU, ADR (by road) RID (by rail) IMO (by sea), ICAO (by air) for transport.

IMO, ADR and RID: manufactured objects or instruments that do not contain more than 1 kg of mercury are not required to follow Code regulations.

15.0 REGULATORY INFORMATION

15.1 Reference standards : The product is a medical device in compliance with directive 93/42/EEC and s.m.

15.2 <u>UN No.</u> : 2809 15.3 <u>EC No.</u> : 231-106-7

15.4 <u>Dander symbols</u> :



Toxic; Dangerous to the environment

15.5 Risk phrases : R23 Toxic if inhaled.

R33 Danger of cumulative effects.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

15.6 <u>Safety phrases</u> : S7 Keep container tightly closed

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

whenever possible)

S60 This material and its container must be disposed of as hazardous waste

S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

15.7 <u>Contains</u> : Mercury

15.8 <u>Product use</u> : Material for dental plugs

15.9 EU statistics classification (tariff code) : 31089091

16.0 OTHER INFORMATION

The information given herein is based on our knowledge and held as being correct, at the Sheet emission date, regarding regulations on safety and the correct use of the preparation.

The user must attain to laws in force, and ensure that the information contained is updated, suitable and complete; this with regard to the specific use that must be made of the substance in the production cycle of same user.

The company is not liable for any incorrect or improper behaviour and action carried out by the purchaser, for product use that is not reasonably predictable or in case or unauthorised resale or because of lack of information given to the end user by the retailer.

This sheet cancels and replaces all previous editions.