

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: Audental Ultra SLM Powder

Article-No.: 228-1987

Revision date: 2018-10-30

Version: EN

Effective Date: October 30, 2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Audental Ultra SLM Powder

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Manufacturing of a fixed or removable dental prosthesis in a dental laboratory

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Company name: Audental Bio-Material Co., Ltd

Full address: 2-2 88, Jingche Road, Songjiang District, 201661 Shanghai, P.R. China

+86-21-37727922

E-mail address of competent person responsible for the SDS: wangxi@audental-asia.com

1.4. Emergency telephone number

Emergency telephone number: +86-21-37727922

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification information

This product does not meet the classification criteria in (EC) N° 1272/2008 (CLP)

This product does not meet the labeling criteria stated in 67/548/EWG and 1999/45/EC

2.2. Label elements

Labeling is in accordance with (EC) No 1272/2008 (CLP Regulation). Label elements in the solid form which the product is marketed

2.3. Other hazards

EYES Contact with eyes may cause severe irritation and possible eye burns.

SKIN: May cause severe irritation and possible burns.

INGESTION: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

INHALATION: May cause irritation and burns to the respiratory tract.

CARBON Dust causes irritation and is possibly allergenic. Cases of pulmonary fibrosis and emphysema have resulted from prolonged inhalation of dust.

CHROMIUM May cause histological fibrosis of the lungs. There are some references to chromium causing lung and/or nasal cancer. In addition, chromium metal has caused tumors in laboratory animals via implant and intravenous routes. Chromium is listed as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).

MANGANESE Dust inhalation may cause tightness and pain in chest, coughing, and difficulty in breathing. Inhalation of dust may cause headache, nausea, vomiting, shortness of breath,



or blurred vision. Dust may irritate skin or eyes. Ingestion may cause central nervous system depression. Prolonged inhalation of Manganese in the form of its inorganic compounds may cause Manganism. Target organs: Respiratory system, central nervous system, blood, kidneys. Medical conditions generally aggravated by exposure: Chronic respiratory disease, liver or kidney disorders, psychiatric disorders, alcoholism, and nerve system disorders.

MOLYBDENUM Chronic inhalation of molybdenum compounds by experimental animals has caused appetite and weight loss, diarrhea, muscular incoordination, hair loss and gout. Excessive intake of molybdenum may interfere with copper metabolism.

TUNGSTEN If substantial quantities of dusts are swallowed, give person, if conscious, a large amount of water, induce vomiting and seek medical attention.

PBT assesment

No data available

vPvB assesment

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is not a substance - This is not applicable

3.2. Mixtures

METAL	%	SYMBOL	CAS NO	EC/EG NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
IRON	<1	Fe	7439-89-6	231-096-4	5 mg/m ³	10mg/m ³
COBALT	64	Co	7440-48-4	231-158-0	0,05mg/m ³	No data
SILICON	<1	Si	7440-21-3	231-130-8	10 mg/m ³	10 mg/m ³ (total dust) 5 mg/m ³ (respiratory dust)
CARBON	<1	C	7440-44-0	231-153-3	3.5 mg/m ³	3.5 mg/m ³
MOLYBDENUM	6	Mo	7439-98-7	231-107-2	Not established	Not established

CHROMIUM	28	Cr	7440-47-3	231-157-5	0.5 mg/m ³	0,5 mg/m ³ CRVI compounds: Ceiling=0,1mg/m ³
MANGANESE	<1	Mn	7439-96-5	231-105-1	5 mg/m ³	5 mg/m ³

Note: % values are in weight percent and reflect nominal composition.

Note: 'x' denotes a content of less than one percent

SECTION 4: First aid measures

4.1. Description of first aid measures

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

SKIN CONTACT: Scrub skin thoroughly with soap and water.

If victim is conscious and alert, give 2-4 cupfuls of milk or water

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Induce vomiting. **Never give anything by mouth to an unconscious person. Get medical aid.

INHALATION: Remove affected person to fresh air and assist with additional oxygen if necessary. Get first aid if other symptoms appear.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Metal fire powders, sand

5.2. Special hazards arising from the substance or mixture

Heating Beyond the melting range may generate fumes which are not flammable

5.3. Advice for fire-fighters

Wear protective clothing and use a self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use proper personal protective equipment as described in section 8.

For emergency responders

Use proper personal protective equipment as described in section 8.

6.2. Environmental precautions

Collect contaminated materials in separate containers. Discharge according to local regulations.

6.3. Methods and material for containment and cleaning up

Avoid creating dust and pick-up using mechanical means

6.4. Reference to other sections

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure the workspace has proper ventilation

Do not consume substances during work.

General protective and hygiene measures

Wash hands before and after breaks. Remove contaminated clothing immediately. Do not ingest, or allow to come into contact with the eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep container closed in a ventilated area

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

8.2. Exposure controls

RESPIRATORY: RESPIRATORY: Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 3. Wear a NIOSH approved respirator for dust exceeding the TLVs.

Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or molds.

EYE PROTECTION: Wear eye protection suitable to each individual operation.

OTHER: Wear apron, lab coat or other protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Gray powder

Odor: Not Applicable

pH: Not Applicable

Boiling Point: Not Applicable

Melting Range: 1290-1350 °C

Flash Point: Not Applicable

Flammability: Not Applicable



Autoflammability: Not Applicable
Explosive Properties: Not Applicable
Oxidizing Properties: Not Applicable
Vapor Pressure: Not Applicable
Solubility(Water/Fat): Insoluble

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

10.2. Chemical stability

Product is stable under normal storage and handling conditions. See Section 7.

10.3. Possibility of hazardous reactions

Hydrogen gas can possibly form if the product comes into contact with acid

10.4. Conditions to avoid

N/A if the product is handled according to the Instructions for Use

10.5. Incompatible materials

Acid

10.6. Hazardous decomposition products

None are known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No data is available other than the information provided in Sections 2 and 3

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bio-accumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations: Dispose of waste according to applicable legislation.

Waste Code: 06 03 99 wastes not otherwise specified

Uncleaned empty packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. Transport ADR/RID/AND

This product is not subject to ADR/RID/AND regulations

14.2. Transport IMDG

This product is not subject to IMDG regulations

14.3. Transport ICAO-TI / IATA

This product is not subject to ICAO-Ti / IATA regulations

14.4. Other information

No data available

No data available

14.5. Environmental hazards

No data is available other than the information provided in Sections 2 and 3

This product is not subject to ICAO-Ti / IATA regulations

14.6. Special precautions for user

none

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations RL 2006/8/EG RL 2006/121/EG

REACH-VO (EG) 1907/200615.2.

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

16.1. Training advice

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

16.2. Disclaimer

The information and recommendations set forth herein (hereinafter "information") are



presented in good faith and believed to be correct as of the date hereof. However, Audental Bio-Material Co., Ltd makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving the above material will make their own determination as to its suitability for their purposes prior to use. In no event will " Audental Bio-Material Co., Ltd " be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.

