

Ainsworth Dental Company
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Safety Data Sheet
according to
the Preparation of SDS for Hazardous Chemicals
Code of Practice February 2016 – Safe Work Australia

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

1.1 Product Identifier:

Trade name: Dental Wax

Other names: Modelling Wax, Bite & Boxing Wax, Bite Wax Sticks, Beauty Wax, Eziset Wax Sticks, Periphery Wax Sticks, Sticky Wax Sticks, Compound Modelling Cake, Compound Modelling Sticks

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

No further relevant information available.

Application of the substance/the preparation: Dental wax used for impressions, bites and various laboratory purposes.

1.3 Details of the supplier for the safety data sheet

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1.4 Emergency Telephone: Poisons Information Centre (National) 13 11 26

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture:

GHS-US classification – Not classified

2.2 Label Elements

GHS-US – No labelling required

2.3 Other hazards

Other hazards which do not result in classification: This product contains greater than 0.1% by weight titanium dioxide. Titanium dioxide inhalation studies in rats indicate that there is sufficient evidence that inhalation of excessive amounts of titanium dioxide is carcinogenic in the lungs of experimental animals. Titanium dioxide is

2.3 continued

classified as "Group 2B (possibly carcinogenic to humans)" by IARC. The substance is contained within the polymer matrix and is not bioavailable.

This mixture is a blend of natural waxes, resins, stearic acid, dyes, toners and pigments that do not contain hazardous ingredients classified as health hazards by the US OSHA Hazard Communication Standard-2012. The pigment (TiO₂) is classified as a Carcinogen, Category 2, however since it is contained within the polymer matrix and therefore not bioavailable, it consequently presents no health hazard.

2.4 Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixture

This mixture is a blend of natural waxes, resins, stearic acid, dyes, toners and pigments that do not contain hazardous ingredients classified as health hazards by the US OSHA Hazard Communication Standard-2012. The pigment (TiO₂) is classified as a Carcinogen, Category 2, however since it is contained within the polymer matrix and therefore not bioavailable, it consequently presents no health hazard.

SECTION 4: First aid measures

4.1 Description of first aid measures

No special measures required.

After inhalation: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical attention.

After skin contact: After contact with the molten product, cool rapidly with cold water. Risk of thermal burns on contact with molten product. Seek medical attention if burns develop.

After eye contact: Rinse immediately with plenty of water for 15 minutes. If in contact with molten material, seek immediate medical attention.

After swallowing: Allow small quantities to pass through the digestive system. Call a poison center or a doctor if you feel unwell. If large amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: Fumes from molten material may cause respiratory irritation.

Symptoms/injuries after skin contact: Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact: Risk of thermal burns on contact with molten product.

Symptoms/injuries after ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Water spray. Dry powder. Foam Carbon Dioxide.

5.2 Special hazards arising from the substance or mixture:

Fire hazard: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard: No direct explosion hazard. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Reactivity: the product is non-reactive under normal conditions of use, storage and transport

5.3 Advice for firefighters

Protective equipment for firefighters: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Emergency procedures: ventilate spillage area

Do not allow to enter sewers, surface or ground water.

6.1.2 For emergency responders: Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions: Avoid release to the environment

6.3 Methods and material for containment and cleaning up: For containment: Confine spills of molten material and allow to solidify. Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections: For further information refer to section 8: Exposure-controls/personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear suitable personal protective equipment.

Hygiene Measures: Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well ventilated place. Keep cool.

Incompatible materials: Strong oxidisers.

Storage temperature: 8-22°C

SECTION 8: Exposure and controls/personal protection

8.1 Control Parameters:

Titanium Dioxide (13463-67-7)

ACGIH	ACHIH TLV (TWA (mg/m³))	10 mg/m³
ACGIH	Remark (ACGIH)	LRT irr, A4
OSHA	OSHA PEL (TWA) (mg/m³)	

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves. It is recommended that the glove supplier be consulted to ensure the protective gloves are resistant to chemicals in this product.

Eye protection: Chemical goggles or safety glasses

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None generally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection: When handling molten material, thermally-protective long sleeved clothing, boots and gloves should be worn.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical State:	Solid
Appearance:	Waxy solid
Colour:	Variation of colours
Odour:	None
Odour threshold:	No data available
pH-value:	Not applicable
Melting point/Melting range:	51.7 – 73.9 °C (125°F - 165°F)
Freezing point/Freezing range:	No data available
Boiling point/Boiling range:	Undetermined
Flash point:	>233.9°C (>435°F)
Relative evaporation rate (butyl acetate=1)	Not applicable
Flammability (solid, gaseous):	No data available
Explosive limits:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Vapour pressure:	Not applicable
Relative vapour density at 20°C:	Not applicable
Solubility:	Water: Insoluble

9.1 continued

Log POW:	No data available
Auto ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Viscosity kinematic:	No data available
Viscosity dynamic:	No data available

9.2 Other information

No further relevant information available

SECTION 10: Stability and reactivity**10.1 Reactivity** This product is non-reactive under normal conditions of use, storage and transport.**10.2 Chemical stability** Stable under normal conditions. Hazardous polymerization will not occur.**10.3 Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.**10.4 Conditions to avoid:** None under recommended storage and handling conditions (see section 7).

Excessive heat.

10.5 Incompatible materials: Strong oxidizers.**10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.**SECTION 11: Toxicology information****11.1 Information on toxicological effects**

Likely routes of exposure: Ingestion; skin and eye contact

Acute toxicity: Not classified (based on available data, the classification criteria are not met)

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met); pH: not applicable

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met); pH: not applicable

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met)

Germ cell mutagenicity: Not classified (based on available data, the classification criteria are not met).

Carcinogenicity: Not classified (based on available data, the classification criteria are not met. Titanium dioxide is in a form that is not available for respiration).

Titanium Dioxide (13463-67-7)***IARC group******2B – Possibly carcinogenic to humans******In OSHA Hazard Communication Carcinogen*** ***Yes***

Reproductive toxicity: Not classified (based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure): Not classified (based on available data, the classification criteria are not met)

11.1 continued

Aspiration hazard: Not classified (based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation: Fumes from molten material may cause respiratory irritation

Symptoms/injuries after skin contact: Risk of thermal burns on contact with molten product. This product contains small amounts of an ingredient which has been reported to cause skin sensitization reactions in humans and guinea pigs.

Symptoms/injuries after eye contact: Risk of thermal burns on contact with molten product

Symptoms/injuries after ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea

SECTION 12: Ecological information**12.1 Toxicity**

Ecology – general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2 Persistence and degradability

Dental waxes: Persistence and degradability: Not biodegradable

12.3 Bioaccumulative potential

No additional information available

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Effect on the global warming; no additional information available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste treatment methods: Dispose of contents/container in accordance with licenced collector's sorting instructions.

Waste disposal recommendations: Can be incinerated according to local regulations.

SECTION 14: Transport information**Department of Transportation (DOT)****In accordance with DOT**

Not regulated for transport

TDG

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

SECTION 15: Regulatory information**15.1 US Federal regulations**

Titanium Dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International regulations**CANADA**

Titanium Dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification; Class D Division 2 Subdivision A – Very toxic material causing other toxic effects

EU-REGULATIONS

No additional information available

NATIONAL REGULATIONS

Titanium dioxide (13463-67-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances inventory)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Phillipines Inventory of Chemicals and chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

15.3 US State regulations***Dental waxes******US – California – Proposition 65 – other information***

Titanium dioxide (airborne, unbound particles of respirable size) is listed on California's Proposition 65.

However, the listing does not cover titanium dioxide when it remains bound within a product matrix.

SECTION 16: Other information

Indication of changes: None

Date of latest revision: 25/09/2020

Sources of Key data: Literature data

Abbreviations and acronyms: LRT (lower respiratory tract) irr (irritation) ACGIH A4 (Not Classifiable as a Human Carcinogen).

Full text of H-statements:

Carc. 2; Carcinogenicity, Category 2

H351; Suspected of causing cancer

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