

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : **Various Dental Waxes**
Including 10X, All-Purpose X-Tough, All-Seasons, Beauty Pink™, Beauty White, Pure Beeswax, Synthetic B-2 Beeswax, Carding, Counter, Inlay Sticks, Lab, Occlusal Wafers, Sticky, and Utility

Product Codes : 106-55590, 107-55710, 110-56270, 110-56271, 116-64599, 116-64699, 117-56470, 11756590INT, 117-56650, 120-57130, 120-57150, 125-57250, 125-57270, 146-57750, 160-56669, 160-58211, 181-58310, 181-58370, 183-58320,, 183-58340, 185-58430, 186-58500, 186-58510, 195-55500, 195-55520, 195-59091, PDG45012, 116-56450, 116-56510, 116-56570, 11656570INT, 116-56630, 11656630INT, 11656633INT, 117-56530, 117-56590, 18058291INT, 180-58351, 18058351INT, 180-58291, 11656450INT, 11656510INT

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

Use of the substance/mixture : dental wax used for impressions, bites and various laboratory purposes.

1.3. Details of the supplier of the safety data sheet

Integra York PA, Inc.
 589 Davies Drive,
 York, PA 17402

Tel: (717) - 840-9335
 Fax: (717) – 840-9347

1.4. Emergency telephone number

24-Hour Number: : +1-800-535-5053
 International Number: : +1-352-323-3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified.

2.2. Label elements

GHS-US labelling

No labeling 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 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

3.1. Substance

Not applicable.

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.

| Name | Product identifier | % | GHS-US classification |
|------------------|---------------------|----------|------------------------|
| Titanium dioxide | (CAS No) 13463-67-7 | 0 - 0.23 | Carcinogen, Category 2 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical attention.
- First-aid measures 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.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. If in contact with molten material, seek immediate medical attention.
- First-aid measures after ingestion : 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 media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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.

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 oxidizers.
 Storage temperature : < 79.4 °C (175°F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Titanium dioxide (13463-67-7) | | |
|-------------------------------|--------------------------------------|----------------------|
| ACGIH | ACGIH TLV (TWA) (mg/m ³) | 10 mg/m ³ |
| ACGIH | Remark (ACGIH) | LRT irr; A4 |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ |

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

- Physical state : Solid
 Appearance : Waxy solid.
 Color : variation of colors
 Odor : None
 Odor threshold : No data available
 pH : Not applicable
 Melting point : 51.7 - 73.9 °C (125°F - 165°F)
 Freezing point : No data available
 Boiling point and boiling point range : No data available
 Flash point : > 233.9 °C (>435°F)
 Relative evaporation rate (butyl acetate=1) : Not applicable
 Flammability (solid, gas) : No data available
 Explosive limits : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Vapor pressure : Not applicable
 Relative density : 0.9 - 0.95
 Relative vapor density at 20 °C : Not applicable
 Solubility : Water: Insoluble
 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 additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The 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: Toxicological 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 list | 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)
 Specific target organ toxicity (repeated exposure) : Not classified
 (Based on available data, the classification criteria are not met)
 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 licensed 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 (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on INSQ (Mexican national Inventory of Chemical Substances) |
| Listed on Turkish inventory of chemical |

Dental Waxes

Safety Data Sheet

according to the federal final rule of hazard communication revised in 2012 (HazCom 2012)

Date of issue: 09/21/2015

Revision date: 09/21/2015

15.3. US State regulations

Dental Waxes

U.S. – 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 : September 21, 2015
 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 |

SDS US (GHS HazCom 2012)

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