

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Modeling Compound
 Product codes : 165-55050, 166-55030, 166-55531, 166-55532, AB310122, 165-55080, 165-55070, 168-65670

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

Use of the substance/mixture : Dental impression compounds used for mouth impressions and indirect inlay procedures.
 : For Professional Use Only.

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 labeling

No labeling required

2.3. Other hazards

other hazards which do not result in classification : 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.

This product contains greater than 0.1% by weight quartz. Silica-IARC-Group 1 (Carcinogen to Humans) listed under crystalline silica inhaled in form of quartz or cristobalite from occupational sources, 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. Quartz is classified as a Carcinogen, Category 1A and Specific Target Organ Toxicity – Repeated Exposure, Category 2, however since it is contained within the polymer matrix and therefore not bioavailable, it consequently presents no health hazard.

Chemical Name	CAS Number	% by Wt.
Silica, Crystalline Alpha-Quartz	14808-60-7	36.5 - 39.3

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. 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.

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.
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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.
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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".
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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. Minimize generation of dust.
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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	OSHA PEL	ACGIH TLV	NIOSH REL
Silica, Crystalline Alpha-Quartz	<u>30 mg/m³</u> %SiO ₂ + 2 TWA (total dust)	0.025 mg/m ³ TWA (respirable dust)	0.05 mg/m ³ TWA (respirable dust) 50 mg/m ³ (respirable dust – US IDLH)

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
 Hand protection : Appropriate 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, NIOSH approved 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 : High heat variety: 130°C
 Low heat variety: 115°C
 Freezing point : No data available
 Boiling point and boiling range : No data available
 Flash point : ≈ 550 °F
 Relative evaporation rate (butyl acetate=1) : < 0.01
 Flammability (solid, gas) : No data available
 Upper/lower explosive limits : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Vapor pressure : Not applicable
 Relative density : No data available
 Relative vapor density at 20 °C : Not applicable
 Density : 1.66 - 1.68
 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. Quartz is in a form that is not available for respiration)

Chemical Name	OSHA Regulated	IARC	NTP
Silica, Crystalline Alpha-Quartz	YES	1 - Carcinogenic to humans	2 - Known human carcinogens

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. Quartz is in a form that is not available for respiration)

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

Modeling Compound

Persistence and degradability	Not biodegradable.
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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 in accordance with all applicable federal, state, and local environmental 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

Silica, Crystalline Alpha-Quartz (14808-60-7)

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

15.2. International regulations

CANADA

Silica, Crystalline Alpha-Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
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EU-Regulations

Silica, Crystalline Alpha-Quartz (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Modeling Compound

Safety Data Sheet

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

Date of issue: 12/09/2015

Revision date: 12/09/2015

National regulations

Silica, Crystalline Alpha-Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)
 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 as carcinogen on NTP (National Toxicology Program)
 Listed on the Canadian IDL (Ingredient Disclosure List)
 Listed on INSQ (Mexican national Inventory of Chemical Substances)
 Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations

Modeling Compound

U.S. - California - Proposition 65 - Other information

Silica (crystalline, respirable) is listed on California's Proposition 65. However, the listing is only applicable to particles of crystalline silica (quartz, cristobalite, tridymite), of respirable size.

SECTION 16: Other information

Sources of Key data

: Literature data.

Abbreviations and acronyms

: ACGIH - American Conference of Government Industrial Hygienists

IARC - International Agency for Research on Cancer

IDLH - Immediately Dangerous to Life or Health

NIOSH - National Institute for Occupational Safety and Health

OSHA - Occupational Safety and Health Administration.

PEL – Permissible Exposure Limit

REL - Recommended Exposure Limit

TWA- Time Weighted Average

SDS US (GHS HazCom 2012)

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