

SAFETY DATA SHEETS

This SDS packet was issued with item:

077025497

N/A

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name and Codes Insta-Peg Refractory Material Item No. 31000			Product Synonyms Refractory Peg Material	
Product Use Used by dental technicians and dental offices			Product Packages Plastic syringe	
Manufacturer's Name Vacalon Company Inc				
Street Address 12960 Stonecreek Dr, Ste C				
City Pickerington		State OH	Country USA	Contact Information For General Product Details (Mon - Fri, 9:00 am - 5:00 pm EDT)
Zip Code 43147			Telephone Number 614-577-1945	Fax Number 614-759-4999
Date MSDS Prepared December 1, 2011		MSDS Prepared By Josh Andrachek		Phone Number 614-577-1945

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number	OSHA PEL	ACGIH TLV
Aluminosilicate Fibers		N/A	N/E	N/E
Silica		7631-86-9	0.1 mg/m ³	0.1 mg/m ³

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Ingestion	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation
[Emergency Overview]				
Appearance: Paste, slightly grey in color (Can exhibit various colors)			Odor: None	
- WARNING: May be harmful if swallowed.				
[Potential Health Effects]				
- Inhalation: Excessive inhalation of dried material over a prolonged period can result in lung damage. (Silicosis)				
- Eyes: May cause irritation. Direct contact can cause damage.				
- Ingestion: This material is not toxic. May do damage to lungs if breathing during accidentally swallowing.				
- Skin: Rubbing may cause irritation similar to sand or dirt				

SECTION 4 — FIRST AID MEASURES

Skin Contact	Remove any contaminated clothes. Then wash with plenty of water for 15 - 20 minutes.
Eye Contact	Flush eyes with large amount of water for at least 15 minutes. Seek attention if irritation persists.
Inhalation	Move subject to fresh air. Give artificial respiration if breathing has stopped. See a physician.
Ingestion	May cause gastrointestinal tract irritation. See physician

Note: In severe cases contact physician and/or poison control center immediately. Have product or label available and follow advice given.

Flammable

Yes **X** No

General Hazards

Material is not considered flammable or combustible.

Means of Extinction N/A

Flashpoint (°C) and Method
N/A

Upper Flammable Limit (% by volume)

N/A

Lower Flammable Limit (% by volume)
N/A

Autoignition Temperature
N/A

Explosion Data—Sensitivity to Impact
None

Explosion Data —Sensitivity to Static Discharge

Special Fire Fighting Procedures	None known
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Unusual Fire and Explosion Hazards

Leak and Spill Procedures

Personal Precautions: Provide adequate ventilation. Avoid breathing dust that is created while handling.

Vacuum spilled material and try to avoid creating dust. Wipe down surfaces with wet cloth.

Handling Procedures and Equipment

Minimize dusts generation and accumulation from dried material. Avoid breathing dust. Avoid contact with eyes.

Storage Requirements

No special requirements exist for storage but it is recommended to store in a dry location.

Other Precautions

Avoid breathing dust that is created from dried material. Wear respirator if necessary. Continue to follow all MSDS warnings when handling empty containers. Do not reuse empty containers.

Specific Engineering Controls (such as ventilation, enclosed process)

If necessary local ventilation should be designed and installed to minimize exposure to dried dust.

Personal Protective Equipment

X Gloves

☒ Respirator

X Eve

Footwear

X Clothing

Other

If checked, please specify type

Gloves: Chemical resistant gloves are recommended if prolonged or repeated skin contact is likely

Respirator: None required if good ventilation is maintained. Otherwise self contained breathing apparatus

(pressure-demand, MSHA/NIOSH - approved or equivalent) that is suitable for up to 10 times that of exposure limit.

~~Eye: Safety glasses should be worn. Clothing: Apron or other impervious cloth~~

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Paste	Odor and Appearance Odorless, white to grey in color	Vapour Pressure N/A
Specific Gravity (H ₂ O = 1) 2.5 - 2.75	Vapor Density (Air = 1) N/A	
Evaporation Rate (Butyl Acetate = 1) N/E	Boiling Point (°C) N/E	
pH N/E	Solubility in water Insoluble in water	Other

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Hydrofluoric acid, phosphoric acid and concentrated alkali
Reactivity, and under what conditions?	
Hazardous Decomposition or By-Products Thermal decomposition of binders or from the first heat of the product may release smoke, carbon monoxide, carbon dioxide, aldehydes and carboxylic acids. Use adequate ventilation or other precautions to eliminate exposure to vapors resulting from thermal decomposition of binder.	
Hazardous Polymerization Will not occur	

SECTION 11 — TOXICOLOGICAL INFORMATION

LD50 Information N/A
Chronic/Carcinogenicity

SECTION 12 — ECOLOGICAL INFORMATION

Ecological Information

No specific studies are available but the material is generally considered chemically inert in the environment.

There are no known adverse effects to water.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Material is not considered a hazardous waste as defined by RCRA. Avoid washing down drains as material can plug drains. Other state and local regulations may vary; consult local authorities as needed.

Avoid waste material from becoming airborne during waste storage.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information

DOT
Not regulated

IMDG

IATA

Other

SECTION 15 — REGULATORY INFORMATION

OSHA
Considered hazardous under OSHA Hazard Communication

WHMIS
"Controlled Product"

SARA 313
Delayed hazard

California Prop 65 This material contains a chemical known to the State of California to cause cancer.

SARA 311/312
Reportable Ingredients: None

TSCA
All ingredients are listed in the TSCA inventory

SECTION 16 — OTHER INFORMATION

HMIS Hazard Rating

0 Health

1 Fire

0 Reactivity

Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Minimum

Section 1: Identification

Product Identifier

Product Name Insta-Peg Refractory Peg Material
Product Code 31000, 31005

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

Recommended use Used by dental professionals as heat shield and for creating holding fixtures

Details of the supplier of the safety data sheet

Manufacturer/Supplier Vacalon Company Inc
12960 Stonecreek Dr Ste C
Pickerington, OH 43147 USA
www.vacalon.com • info@vacalon.com
Telephone (General) 614-577-1945

Emergency telephone number

Hazmat Services Inc (24 hour) 800-373-7542 (USA)
484-951-2432 (International)

Section 2: Hazard Identification

Classification of the substance or mixture

- Material is not classified as a hazardous substance or mixture.

Label elements

- This product is not subject to identification regulations.

Other information

- Observe normal safety regulations and precautions when handling chemicals.
- Mechanical processing of dried material may result in the release of minimal amounts of lightweight fragments and/or dust. Inhalation of excessive amounts of dust may cause mechanical irritation to the respiratory tract.

Section 3. Composition/Information on Ingredients

Chemical characterization • Mixture
Description • Mixture of water and non-hazardous substances
Hazardous Components • Product contains no hazardous components in reportable quantities under current regulations.

Section 4. First-Aid Measures

Description of first-aid measures

Inhalation • Move to fresh air. Seek medical attention if problems persist.
Skin • Wash with water and soap. Seek medical attention if irritation persists.
Eye • Flush eyes with water for at least 15 minutes. Seek medical attention if problems persist.
Ingestion • Rinse out mouth with water. Never give anything by mouth to unconscious person. Seek medical attention if problems persist.

Most important symptoms and effects, both acute and delayed

- No data available

Indication of any immediate medical attention and special treatment needed

- No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media • The product itself will not support combustion. In a sustained fire use an extinguisher appropriate for surrounding area.
Unsuitable extinguishing media • None known

Special hazards arising from the substance or mixture

- Sizing or binders may decompose in a sustained fire releasing minor quantities of decomposition products.

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Wear gloves, goggles and suitable protective clothing.

Environmental precautions

- Avoid run off to waterways and sewers

Methods and material for containment and cleaning up

Containment/Clean-up measures

- Pick up material mechanically and place in suitable container for disposal as required by local regulations.
- Material is not a hazardous waste.

Reference to other sections

- No data available

Section 7. Handling and Storage

Precautions for safe handling

Handling

- Handling of dried product can be a source of dust emissions and therefore the processes should be designed to limit to the amount of handling and/or handling should be carried out under controlled conditions.
- For personal comfort avoiding excessive contact with skin and using good personal hygiene procedures is recommended.

Information about protection against explosion and fires

- No special requirements

Condition for safe storage, including any incompatibilities

Technical measures and storage conditions

- Store at normal room temperatures and do not expose to extreme hot or cold temperatures to avoid risk of solidification.
- Protect from heat and direct sunlight.

Information about common storage area

- No special requirements

Additional storage information

- No data available

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limit Values (as respirable dust)

Nuisance dusts

OSHA-PEL

Note

- 5 mg/m³ (TWA)

Handling of dried material may generate respirable dust. If product is handled in such a way that inhalation of the material is possible, hygiene practices should be utilized to ensure that exposure to respirable particles is within the regulated limits.

Exposure Controls

Engineering measures/controls

- Local ventilation should be designed and installed to keep exposure to respirable dust below exposure limits.

Personal Protective Equipment

Respiratory

Eye/Face

Hands

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear safety glasses
- Wear appropriate gloves

Insta-Peg Refractory Peg Material

- | | |
|---|---|
| Skin/Body | • Lightweight protective clothing |
| General industrial hygiene considerations | • Wash hands before breaks and at the end of work |
| Environmental exposure controls | • No data available |

Section 9. Physical and Chemical Properties

Appearance/Description	White or blue gel		
Odor	Odorless	Odor Threshold	No data available
pH	No data available	Specific Gravity	1.7
Melting Point/Range	No data available	Boiling Point/Range	No data available
Water Solubility	Soluble	Viscosity	No data available
Partition coefficient: n-octanol/water	No data available	Decomposition Temperature	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Explosive Properties	Product is not explosive
Flammability (solid, gas)	Product is not flammable		
Flash Point	No data available	UEL	No data available
Auto-ignition Temperature	No data available	LEL	No data available

Section 10. Stability and Reactivity

- | | |
|------------------------------------|---|
| Reactivity | • No hazardous reactions known |
| Chemical Stability | • Stable at normal temperatures |
| Possibility of hazardous reactions | • No hazardous reactions known |
| Conditions to avoid | • Excess heat or freezing |
| Incompatible materials | • No data available |
| Hazardous decomposition products | • Binders may decompose in a fire and decomposition products may include carbon monoxide, carbon dioxide, other hydrocarbons and water. |

Section 11. Toxicological Information

Information on toxicological effects

- | | |
|---------------------------|--|
| Likely routes of exposure | • Eyes, Ingestion, skin contact, inhalation (dried material) |
|---------------------------|--|

Acute/potential health effects

- | | |
|------------|---|
| Inhalation | • When dried material may release dust and inhalation of dust may result in irritation of the upper respiratory tract (mouth, nose, throat) |
| Skin | • Skin contact may produce itching and temporary mechanical irritation |
| Eyes | • Eye contact with fibers and dusts may produce temporary mechanical irritation |
| Ingestion | • May cause temporary mechanical irritation of digestive tract, nausea, vomiting and diarrhea. |

Sensitizing effects

- No data available

Acute toxicity data

- No data available

Delayed and immediate effects as well as chronic effects from short and long term exposure

- No data available

Carcinogenicity

- IARC, NTP or OSHA identifies no component of this product that is present at levels greater than or equal to 0.1% as a human carcinogen.

Section 12. Ecological Information

- | | |
|-------------|---------------------|
| Ecotoxicity | • No data available |
|-------------|---------------------|

Persistence and degradability
 Bioaccumulative potential
 Mobility in soil
 Other information

- No data available
- No data available
- No data available
- Do not discharge product unmonitored into environment

Section 13. Disposal Considerations

Waste treatment methods

Recommendation
 Contaminated packaging
 Other

- Dispose of in accordance with all local, state and federal regulations.
- Dispose of in accordance with all local, state and federal regulations.
- Waste is not hazardous as defined by RCRA (40 CFR)

Section 14. Transport Information

Land Transport

UN number
 UN proper shipping name
 Transport hazard classes
 Note

- Not applicable
- Not applicable
- Not applicable
- Product is not dangerous according to regulations

Marine Transport

UN number
 UN proper shipping name
 Transport hazard classes
 Marine pollutant
 Note

- Not applicable
- Not applicable
- Not applicable
- No
- Product is not dangerous according to regulations

Air Transport

UN/ID number
 UN proper shipping name
 Transport hazard classes
 Note

- Not applicable
- Not applicable
- Not applicable
- Product is not dangerous according to regulations

Section 15. Regulatory Information

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

OSHA Hazardous Communications
 Standard (29CFR 1910.1200)
 SARA Hazard Categories
 TSCA

- This product is not considered hazardous
- No data available
- This product contains materials listed in the TSCA inventory or otherwise complies with TSCA requirements.
- No reportable ingredients
- No reportable ingredients
- This product contains no chemicals known by the state of California to cause cancer or birth defects.

CERCLA
 US - SARA - Section 313
 California Prop 65

Section 16. Other Information

This document has been prepared using data from current manufacturer's SDS's of the component parts of the product and from other sources considered to be technically reliable. This document is not meant to be an all-inclusive document on worldwide hazard communication regulations and shall be used only as a guide. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment, in addition to complying with all Federal, State, Provincial and Local laws and regulations. The information contained in this SDS is furnished without warranty, expressed or implied, regarding the accuracy or results obtained from the use thereof. Vacalon assumes no legal responsibility for the use or reliance upon the data in this sheet. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information or the misuse of the product.

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