SAFETY DATA SHEETS

This SDS packet was issued with item: 076473029

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076468557 076468565 076468573 076468581 076468615 076468623 076468631 076468649 076468656 076468698 076468706 076468714 076468722 076468730 076468771 076468789 076468797 076468805



MATERIAL SAFETY DATA SHEET

M.S.D.S.[#] 00052 Page 1 of 2

March 30, 2010

1. Chemical Product and Contact Information					
Product Name:	Correct F	Correct Plus [®] Vinyl Polysiloxane			
		Impression Material			
Material Safety Sheet Num Date of Issue: Revision Date:	ber: 00052 05/26/00 03/30/10				
Company Identification:	Orange, CA Phone: 8	Collins Ave.			
Emergency Information Chemtrec International:	Chemtrec: 8	800-424-9300 202-483-7616			
2. Composition/Information	tion on Ingredients				
Chemical characteristics: Description:	Polyvinylsilo	ethylsiloxane. kane resin mixture with i SiH capped polysiloxan			
Hazardous components:	Element	CAS #	Exposure L	imit mg/m ³	1
			OSHA PEL	ACGIH TLV	1
	Polyvinyldimethylsiloxan	e 68083-18-1	N/E	N/E	
	Inorganic Fillers	Mixture	N/A	N/A	
	Pigments	Various	N/A	N/A	
	Platinum Catalyst	N/A	N/A	N/A	
	SiH capped polysiloxane		N/E	N/E	
	Flavoring Agents	Unknown	N/A	N/A	
Risk identification: Special risks for human beings and environment: None known. Classification: Unknown. 4. First Aid Measures General information:					
After skin contact: After eye contact: After swallowing:	Wash with plenty of water and soap. Consult a physician if irritation occurs. Immediately flush eyes with eyelids retracted with plenty of water for 15 minute Consult an ophthalmologist if needed. Seek medical advice immediately.			ccurs. minutes.	
Extinguishing media: Protective equipment:	During a fire, irritating and/or toxic gases and aerosols may be present from the decomposition/combustion products.				
6. Accidental Release Measures					
Personal precautions: Environmental precautions:	Protective gloves and goggles. Absorb with inert material. Collect in closed containers and dispose of as recommended. Avoid skin contact, wear protective equipment.			nmended.	
Methods for cleaning up: Additional information:	Dispose in accordance to Federal, State, and local regulations. Unknown.				
7. Handling and Storage					
Handling: Handling procedures: Recommendation for fire	Not applicable. Not applicable.				
and explosion protection: Storage:	Not applicable. Store at ambient temp oxidizing, and/or reduc		om direct sun	light, initiato	ors,
Requirements at storerooms and containers: Additional storage conditions: Storage classification: VBF- classification:	Over time, spontaneous polymerization may occur. Not applicable. Not applicable. Not applicable. Not applicable.				

Obtained by Global Safety Management, Inc. www.globalsafetynet.com (Tel: 1-813-435-5161)

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	Pentron
-	Clinical

MATERIAL SAFETY DATA SHEET

M.S.D.S.[#] 00052 Page 2 of 2 March 30, 2010

	March 30, 2010		
8. Exposure Controls/Personal Participation Additional information:	otection		
Personal protective equipment: General measure of protection	Protective gloves (Rubber, PVS, Nitrile), goggles, and a rubber apron.		
and hygiene: Respiration: Hands:	Normal hygienic measures. Unknown		
Hands: Eyes:	Protective gloves. OSHA approved goggles.		
9. Physical and Chemical Propert			
Appearance: Form: Gel or Put Color: Shaded. Odor: Odorless,	rty-like. or berry-scented.		
Information on change in the physical stat Melting point/melting range: Boiling point/boiling range: Flash point: Autoignition temperature: Danger of explosion: Density: Vapor pressure: Viscosity: pH: Solubility in/miscibility with water: Content of solvents: Percent Volatile: Water: Content of solids:	e Not applicable. A85°F (252°C) Closed cup - DIN 51755. Unknown. Unlikely. Various. Not applicable. Not applicable. Insoluble. None. < 2%. None. Various.		
10. Stability and Reactivity			
Chemical Stability: Incompatibility with other substances: Hazardous decomposition products:	Stable. Not applicable. Not applicable.		
11. Toxicological Information			
Carcinogenicity: TLV:	None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens. None.		
Primary Routes of entry:	Inhalation, skin, and eyes.		
12. Ecological Information			
General information: Classification of water endangerment:	Unknown. Unknown.		
13. Disposal Considerations			
Disposal consideration:	Dispose of in accordance with Federal, State, and local regulations.		
14. Transport Information			
	Not classified as dangerous goods.		
15. Regulatory Information			
Classification according to EEC guidelines: National Prescriptions: Classification according to VbF:	Unknown. Unknown. Unknown.		

16. Other Information

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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PENTRON

SAFETY DATA SHEET

Correct Plus VPS® Putty Impression Material Base

Section 1. Identifi	cation
GHS product identifier	Correct Plus VPS® Putty Impression Material Base
Other means of identification	: VPS Putty, Plus Putty and Berry Putty. Product Code: Q03, Q34H, Q34HCA
Product type	: Gel. Putty.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Dental product: Denture impression material.
Area of application	: Professional applications.
Manufacturer	: Pentron Clinical 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com
Emergency telephone number (with hours of operation)	: CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Health effects are based on the uncured material.
Classification of the substance or mixture	: TOXIC TO REPRODUCTION (Fertility) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Suspected of damaging fertility.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Date of issue/Date of revision	: 12/03/2014 Date of previous issue : No previous validation Version : 1 1/1

Section 2. Hazards identification

Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

CAS number Product code	: Not applicable : Not available.			
Ingredient name		Other names	%	CAS number
cristobalite Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated		cristobalite Not available.	30-60 1-5	14464-46-1 69013-23-6
octamethylcyclotetrasilo	xane	octamethylcyclotetrasiloxane	0.1-1	556-67-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
Inhalation	 No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact	 No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	m <u>s</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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Section 4. First aid measures

Skin contact	 Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
-	cical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	 In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
For emergency responders	: Low release. See also the information in "For non-emergency personnel".
Environmental precautions	: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Small spill		Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	1	Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling	I	
Protective measures	:	No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
Advice on general occupational hygiene	-	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 20 to 25°C (68 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits			
Ingredient name cristobalite	OSHA PEL Z3 (United States, 2/2013). TWA: 250 MPPCF / 2 x (%SiO2+5) 8 hours. Form: Respirable TWA: 10 MG/M3 / 2 x (%SiO2+2) 8 hours. Form: Respirable TWA: 30 MG/M3 / 2 x (%SiO2+2) 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 0.05 mg/m³, (as quartz) 8 hours. Form:			
	Respirable dust ACGIH TLV (United States, 6/2013). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m ³ 10 hours. Form: respirable dust			

Appropriate engineering	1	No s
controls		con
Environmental exposure	1	No s
controls		cond

No special measures are required for small quantities under normal and intended conditions of product use.

posure : No special measures are required for small quantities under normal and intended conditions of product use.

Individual protection measures

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Section 8. Exposure controls/personal protection

•	• •
Hygiene measures	 No special measures are required for small quantities under normal and intended conditions of product use.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 No special measures are required for small quantities under normal and intended conditions of product use.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: No special measures are required for small quantities under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Gel. Putty.
Color	: Various
Odor	: Odorless. Berry.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: 252°C (485.6°F) [DIN 51755]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.

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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
	Hazardous polymerization may occur under certain conditions of storage or use.
Conditions to avoid	: Keep away from heat and direct sunlight.
Incompatible materials	 Reactive or incompatible with the following materials: oxidizing materials and reducing materials. Incompatible with peroxides. free radical initiators.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Siloxanes and Silicones, di- Me, Me hydrogen, hydrogen- terminated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
octamethylcyclotetrasiloxane	LC50 Inhalation Vapor	Rat	36 g/m³	4 hours
	LD50 Dermal	Rat	1770 mg/kg	-
	LD50 Oral	Rat	1540 mg/kg	-

Conclusion/Summary : Based on analysis and test results, this product is considered as biocompatible per EN ISO 7405:2008 and EN ISO 10993-1:2009. Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
octamethylcyclotetrasiloxane	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
cristobalite	-	1	Known to be a human carcinogen.

Reproductive toxicity

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Section 11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
cristobalite	Category 2	Not determined	lungs

Aspiration hazard

Not available.

Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal, Inhalation.					
Potential acute health effects						
Eye contact	: No known significant effects or critical hazards.					
Inhalation	: No known significant effects or critical hazards.					
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.					
Ingestion	: No known significant effects or critical hazards.					
Symptoms related to the phy	sical, chemical and toxicological characteristics					
Eye contact	: No specific data.					
Inhalation	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations 					
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations					
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations					
Delayed and immediate effect	ts and also chronic effects from short and long term exposure					
Short term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Long term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Potential chronic health eff	ects					
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United States

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Section 11. Toxicological information

Not available.

General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	10		21 days 93 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
octamethylcyclotetrasiloxane	-	0 % - 42 days	-	-

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
octamethylcyclotetrasiloxane	6.488	13400	high

Mobility in soil

Soil/water partition coefficient (Koc) : Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	 TSCA 8(a) PAIR: octamethylcyclotetrasiloxane United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 211: Formaldebude
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Clean Water Act (CWA) 311: Formaldehyde Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

				SARA 302 TPQ		SARA 3	04 RQ
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Formaldehyde		<0.0004	Yes.	500	73.9	100	14.8
SARA 304 RQ	: 27777777.8 lbs	/ 12611111	.1 kg	ł	ł	4	
<u>SARA 311/312</u>							

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: 12/03/2014

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Section 15. Regulatory information

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
cristobalite Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated octamethylcyclotetrasiloxane	30-60 1-5 0.1-1	No. No. Yes.	No. No. No.	No. No. No.	No. Yes. No.	Yes. No. Yes.

SARA 313

Not applicable.

State regulations

Massachusetts	 The following components are listed: MAGNESITE DUST; SOAPSTONE; SILICA, CRYSTALLINE, QUARTZ; CRISTOBALITE DUST
New York	: None of the components are listed.
New Jersey	 The following components are listed: MAGNESITE; CARBONIC ACID, MAGNESIUM SALT (1:1); SOAPSTONE; SILICA, QUARTZ; QUARTZ (SiO2); SILICA, CRISTOBALITE; CRISTOBALITE (SiO2); MINERAL OIL (UNTREATED and MILDLY TREATED)
Pennsylvania	 The following components are listed: SOAPSTONE DUST; QUARTZ (SIO2); CRISTOBALITE (SIO2); SILICA AMORPHOUS DIATOMACEOUS EARTH (UNCALCINED)
Onliferation Data and CE	

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
cristobalite	Yes.	No.	No.	No.
crystalline silica non-respirable	Yes.	No.	No.	No.
crystalline silica respirable	Yes.	No.	No.	No.
Formaldehyde	Yes.	No.	Yes.	No.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Date	of	issue/	Date	of	revision

: 12/03/2014 Date of previous issue

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Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of issue/Date of revision	: 12/03/2014
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: IHS
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. PENTRON

SAFETY DATA SHEET

Correct Plus VPS® Putty Impression Material Catalyst

Section 1. Identification			
GHS product identifier	: Correct Plus VPS® Putty Impression Material Catalyst		
Other means of identification	: VPS Putty, Plus Putty and Berry Putty. Product Code: Q03, Q34H, Q34HCA		
Product type	: Gel. Putty.		
Relevant identified uses of	the substance or mixture and uses advised against		
Product use	: Dental product: Denture impression material.		
Area of application	: Professional applications.		
Manufacturer	: Pentron Clinical 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283		
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com		
Emergency telephone number (with hours of operation)	: CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887		

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
	Health effects are based on the uncured material.		
Classification of the substance or mixture	: TOXIC TO REPRODUCTION (Fertility) - Category 2		
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%		
GHS label elements			
Hazard pictograms			
Signal word	: Warning		
Hazard statements	: Suspected of damaging fertility.		
Precautionary statements			
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.		
Response	: IF exposed or concerned: Get medical attention.		
Storage	Store locked up.		
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.		
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Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of	:	Not available.
identification		

Ingredient name	Othe
Product code	: Not available.
CAS number	: Not applicable.

Ingredient name	Other names	%	CAS number
cristobalite	cristobalite	30-60	14464-46-1
octamethylcyclotetrasiloxane	octamethylcyclotetrasiloxane	0.1-1	556-67-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
Inhalation	 No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact	 No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>S</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>oms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Section 4. First aid measures

Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Protection of first-aiders	 In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	ald to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures			
Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: Do not use water jet.		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides		
Special protective actions for fire-fighters	In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
For emergency responders	: Low release. See also the information in "For non-emergency personnel".
Environmental precautions	: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
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Section 7. Handling and storage

Precautions for safe handling		
Protective measures		No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 20 to 25°C (68 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
cristobalite	OSHA PEL Z3 (United States, 2/2013).		
	TWA: 250 MPPCF / 2 x (%SiO2+5) 8 hours.		
	Form: Respirable		
	TWA: 10 MG/M3 / 2 x (%SiO2+2) 8 hours.		
	Form: Respirable		
	TWA: 30 MG/M3 / 2 x (%SiO2+2) 8 hours.		
	Form: Total dust		
	OSHA PEL 1989 (United States, 3/1989).		
	TWA: 0.05 mg/m ³ , (as quartz) 8 hours. Form:		
	Respirable dust		
	ACGIH TLV (United States, 6/2013).		
	TWA: 0.025 mg/m ³ 8 hours. Form:		
	Respirable fraction		
	NIOSH REL (United States, 10/2013).		
	TWA: 0.05 mg/m ³ 10 hours. Form: respirable		
	dust		

Appropriate engineering controls	 No special measures are required for small quantities under normal and intended conditions of product use. 		
Environmental exposure controls	: No special measures are required for small quantities under normal and intended conditions of product use.		
Individual protection measure	<u>ires</u>		
Hygiene measures	 No special measures are required for small quantities under normal and intended conditions of product use. 		
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.		
Skin protection			
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Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 No special measures are required for small quantities under normal and intended conditions of product use.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 No special measures are required for small quantities under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Gel. Putty.
Color	:	Various
Odor	:	Odorless. Berry.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Closed cup: 252°C (485.6°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Not available.
(flammable) limits		
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	Not available.
Solubility	:	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
	Hazardous polymerization may occur under certain conditions of storage or use.
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Section 10. Stability and reactivity

Conditions to avoid	:	Keep away from heat and direct sunlight.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials and reducing materials. Incompatible with peroxides. free radical initiators.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
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Product/ingredient name	Result	Species	Dose	Exposure	
octamethylcyclotetrasiloxane	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rat	36 g/m³ 1770 mg/kg 1540 mg/kg	4 hours - -	
Conclusion/Summary	Based on analysis and test results, this product is considered as biocompatible per EN ISO 7405:2008 and EN ISO 10993-1:2009. Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.				

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
octamethylcyclotetrasiloxane	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
cristobalite	-	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
cristobalite	Category 2	Not determined	lungs
		•	·

Aspiration hazard

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Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	:	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physic	sic	al, chemical and toxicological characteristics
Eye contact	÷	No specific data.
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effect	ts :	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate	:	Not available.
effects		
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
General	:	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	1	Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
octamethylcyclotetrasiloxane	Chronic NOEC 1.7 to 15 µg/l Fresh water Chronic NOEC 4.4 µg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Egg	21 days 93 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
octamethylcyclotetrasiloxane	-	0 % - 42 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
octamethylcyclotetrasiloxane	6.488	13400	high

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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Disposal methods
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: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: octamethylcyclotetrasiloxane; 1,1,3,3-tetramethyl-1,3-divinyldisiloxane United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification : Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
cristobalite	30-60	No.	No.	No.	No.	Yes.
octamethylcyclotetrasiloxane	0.1-1	Yes.	No.	No.	No.	Yes.

SARA 313

Not applicable.

State regulations	
Massachusetts	 The following components are listed: MAGNESITE DUST; SOAPSTONE; SILICA, CRYSTALLINE, QUARTZ; CRISTOBALITE DUST
New York	: None of the components are listed.
New Jersey	 The following components are listed: MAGNESITE; CARBONIC ACID, MAGNESIUM SALT (1:1); SOAPSTONE; SILICA, QUARTZ; QUARTZ (SiO2); SILICA, CRISTOBALITE; CRISTOBALITE (SiO2); MINERAL OIL (UNTREATED and MILDLY TREATED)
Pennsylvania	 The following components are listed: SOAPSTONE DUST; QUARTZ (SIO2); CRISTOBALITE (SIO2); SILICA AMORPHOUS DIATOMACEOUS EARTH (UNCALCINED)
<u>California Prop. 65</u>	

WARNING: This product contains a chemical known to the State of California to cause cancer.

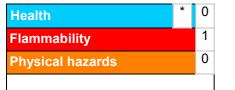
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Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
cristobalite	Yes.	No.	No.	No.
crystalline silica non-respirable	Yes.	No.	No.	No.
crystalline silica respirable	Yes.	No.	No.	No.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of issue/Date of revision	: 12/03/2014
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Version	: 1
Prepared by	: IHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

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Section 16. Other information

References

: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.