# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 077157159

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).

077103476 077103484 077103500 077103591 077103609 077103633 077103641 077103658 077103666 077103674 077103682 077103690 077103708 077103716 077103724 077103732 077103773 077104011 077104029 077157050 077157068 077157076 077157100 077157118 077157126 077157134 077157142 077157167 077157209 077157217 077157225 273045205

Material Safety Data Sheet	Virtual			ivoclar
Date of issue / Reference	01.06.2011	liprt		vivadent
Replaces version of	17.10.2007	lise / v5		
Date of printing	01.06.2011	Sheet No. 1504	Version 6	Page 1 of 5
Company	Ivoclar Vivad Fürstentum Li	ent AG, Bendererstra echtenstein	sse 2, FL - 949	4 Schaan

# 1 Commercial product name and supplier

1.1	Commercial product name / Designation	Virtual
		Extra Light Body, Light Body, Medium Body, Heavy Body, Monophase, Putty (fast und regular set), CADbite Registration, Virtual 380

		NFPA			
		$\sim$	HN	<b>AIS</b>	
		0	н	0	
			F	0	
			R	0	
1.0	A 11 / / / II				
1.2	Application / Use	Dental silicone impression materia	ls		
1.3	Producer	Ivoclar Vivadent AG, Bendererstra Principality of Liechtenstein (FL)	usse 2, 94	494 Scha	aan
1.4	Supplier	Ivoclar Vivadent, Inc. 175 Pineview Drive, Amherst NY 2785 Skymark Ave., Unit 1 Missis MSDS prepared by Anderjeet Gula	sagua, O	N L4W	
1.5	24 Hour Emergency Assistance	Emergency-Call USA- Infotrac: 1- Emergency-Call Canada - Canutec			6
	General MSDS Assistance	US: 1-800-533-6825 Canada: 1-800-263-8182			
2	Composition				
2.1	Chemical characterization	Addition-reaction silicones of: Vinylpolysiloxane, methylhydroger catalyst and food dyes	nsiloxan	e, organ	ic filler, pigment,

# 2.2 Hazardous components

2.3	Further information	None.
3	Hazards identification	None, if used in accordance to instructions. Prevent from accidental ingestion.

Date	terial Safety Data Sheet of issue / Reference aces version of	Virtual 01.06.2011 17.10.2007	liprt lise / v5		ivoclar vivadeni
-	of printing	01.06.2011	Sheet No. 1504	Version 6	Page 2 of 5
4	First aid measures				
4.1	Eye contact	Flush with ple	enty of water.		
4.2	Skin contact	Wash with wa	ter.		
4.3	Ingestion	No hazards an to normal han	ticipated from swallo dling.	wing small amo	ounts incidentally
4.4	Inhalation	No specific re	quirements.		
4.5	Further information	None.			
5	Fire-fighting measures				
5.1	Suitable extinguishing media	Water fog, car	rbon dioxide, foam, d	ry chemicals.	
5.2	Extinguishing media to avoid	None known			
5.3	Flash point				Test method:
5.4	Ignition temperature				
5.5	Explosion limits	Lower: Upper: not applicable			
5.6	Further information	None.			
6	Accidental release measures	allow to flow	hanically. Wash the a off into the drains or cording to local and n	waters.	
7	Handling and storage				
7.1	Handling	Only adequate	ely trained personnel	should handle t	his product.
7.2	Industrial hygiene	Usual hygieni	c measures for dental	practice.	
7.3	Storage	Store at 5-28	°C / 41-82 °F.		
7.4	Place of storage		l ventilated, cool, dry ers tightly closed.	area.	
7.5	Fire- and explosion-protection	No specific re	quirements.		
8	Exposure controls / Personal protect	tion			
8.1	Exposure controls	No specific re	quirements.		

8.2 Exposure limit values None established.

Ма	aterial Safety Data Sheet	Virtual			ivoclar
Rep	e of issue / Reference laces version of e of printing	01.06.2011 17.10.2007 01.06.2011	liprt lise / v5 <b>Sheet No. 1504</b>	Version 6	vivadeni Page 3 of 5
8.3	Occupational exposure controls				
8.3.	1 Respiratory protection	Not required.			
8.3.	2 Hand protection		ves only or wash hand anes is inhibited by la		The setting of
8.3.	3 Eye protection	Safety goggles	5.		
8.3.	4 Other	None.			
8.4	Environmental exposure controls				
9	Physical and chemical properties				
9.1	Appearance	Pastes / viscous	liquids		
9.2	Colour	various			
9.3	Odour	low			
9.4	Change of physical state				Test method:
		not applicable			
9.5	Density	1.0-1.6 g/cm <sup>3</sup> (2	20°C)		
9.6	Vapour pressure				
		not applicable			
9.7	Viscosity				
		not known			
9.8	Solubility				
	Solubility in water	nearly insoluble	2		
9.9	рН	not known			
910	) Further information				
2.10	Part. coeff. n-octanol/water				
	Evaporat. rate				
		None.			

Mat	erial Safety Data Sheet	Virtual			ivoclar
Repla	of issue / Reference ces version of	01.06.2011	liprt lise / v5	Vanian	vivadent
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10	Stability and reactivity				
10.1	Thermal decomposition	> 250 °C			
10.2	Hazardous decomposition products	None, if used	in accordance to instr	uctions.	
10.3	Conditions / materials to avoid	None, if used	in accordance to instr	uctions.	
10.4	Further information	None.			
11	Toxicological information				
11.1	Acute toxicity				
11.2	Subacute / Chronic toxicity	proper industr	fects anticipated by th ial handling. ses no cytotoxic pote	-	osure incidental to
11.3	Further information	Avoid eye con	itact.		
12	Ecological information				
12.1	Ecotoxicity	No data availa	ble.		
12.2	Mobility	No data availa	ble.		
12.3	Persistence and degradability	No data availa	ble.		
12.4	Bioaccumulative potential	No data availa	ble.		
12.5	Further information	used. nearly insolub Material is not	problems to be antici le t degradable in the en rge to sewers or natur	vironment.	ly handled and
13	Disposal considerations		proved landfill or a w proved by the local au		n plant, under
14	Transport information				
14.1	Transport at land	ADR		RID	
		UN Number Packing Grouj Proper shippir	p	Kemler Numbo	er

Mat	terial Safety Data Sheet	Virtual				ivoclar
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14.2	Transport at sea	ADNR			IMDG	
		UN Number EMS Packing Group Proper shipping Marine pollutar			MFAG	
14.3	Air transport	ICAO / IATA-J UN Number Proper shipping Subsidiary Risk Labels Packing Group	g name	   		
	Passenger airplane	Packing Instruc				
	Cargo Airplane	max. Packing Instruc max.	tions	 		
14.4	Further information					
		Product is not c	classified as	a dang	erous good for t	ransport.
15	Regulatory information	93/42/EEC. This product is	classified a ations and h	s a mec as beei	ccording to the I lical device unden reviewed by th Canada.	er US and
15.1	National regulations					
15.2	NFPA Storage					
15.3	Further information	None.				
16	Other information	No other inform	nation.			

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

This safety data sheet has been generated with the safety database 'ChemManager', © ASSIST Applied Software Solutions in Science and Technology AG, Weiherweg 3, CH-4104 Oberwil, Switzerland

# ivoclar vivadent:

# Safety Data Sheet acc. to OSHA HCS

Printing date 05/04/2015

Version number 7

Reviewed on 04/27/2015

## **1 Identification**

- · Product identifier
- · Trade name: Virtual

• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- $\cdot$  Application of the substance / the mixture Dental impression material
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: Ivoclar Vivadent Inc. 175 Pineview Drive, Amherst, N.Y. 14228 USA Tel. +1 800 533 6825 Fax +1 716 691 2285

Ivoclar Vivadent Inc. 1-6600 Dixie Road Mississauga, Ontario L5T 2Y2 Canada Phone: +1 905 670 8499 Fax: +1 905 670 3102

 Information department: Quality Assurance / Regulatory Affairs
 Emergency telephone number: 24 Hour Emergency Assistance: Emergency-Call USA - Infotrac: 1-800-535-5053 Emergency-Call Canada - Canutec: 1-613-996-6666

*General SDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182* 

# 2 Hazard(s) identification

 $\cdot$  Classification of the substance or mixture

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: cristobalite Quartz (SiO2)
- *Hazard statements May cause cancer.*

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(Contd. of page 1) Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative. • Precautionary statements

*Get medical advice/attention if you feel unwell.* 

- Dispose of contents/container in accordance with local/regional/national/international regulations. Additional information:
- *Medical devices are exempt from the labeling provisions of GHS according to the Hazard Communication Standard (HCS).*
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity =

- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### 3 Composition/information on ingredients

0

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

0	1	
14464-46-1	cristobalite	50-100%
14808-60-7	Quartz (SiO2)	10-<25%

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with water.
- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.

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Trade name: Virtual

• Advice for firefighters

• Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

· Handling:

- *Precautions for safe handling* Only adequately trained personnel should handle this product. For use in dentistry only.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Protect from heat and direct sunlight.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:	
1446	4-46-1 cristobalite	
PEL	<sup>1</sup> / <sub>2</sub> value from respirable dust formulae for Quartz	
REL	0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A	
TLV	0.025* mg/m <sup>3</sup> *as respirable fraction	
1480	8-60-7 Quartz (SiO2)	
PEL	see Quartz listing	
REL	0.05* mg/m³ *respirable dust; See Pocket Guide App. A	
TLV	0.025* mg/m³ *as respirable fraction	
· Addi	<i>tional information:</i> The lists that were valid during the creation were used as basis.	(Contd. on page 4)

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(Contd. of page 3) · Exposure controls · Personal protective equipment: • General protective and hygienic measures: Usual hygienic measures for dental practice. *Keep away from foodstuffs, beverages and feed.* Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Breathing equipment: Not required. · Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Safety glasses Goggles recommended during refilling. 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Viscous Color: Different according to coloring · Odor: like peppermint · Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Not applicable.

 · Auto igniting:
 Product is not selfigniting.

 · Danger of explosion:
 Product does not present an explosion hazard.

 · Explosion limits:
 Image: Not determined.

 Lower:
 Not determined.

 Upper:
 Not determined.

 · Vapor pressure:
 Not determined.

 · Density at 20 °C (68 °F):
 1.0 - 1.6 g/cm³ (8.345 - 13.352 lbs/gal)

 · Relative density
 Not determined.

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		(Contd. of page
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with	!	
Water:	Nearly insoluble.	
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
• Other information	No further relevant information available.	

## **10** Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: None under normal conditions of storage and use.

#### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- $\cdot \textit{Additional toxicological information:}$

· Carcinogenic categories

· IARC (Inter	rnational Agency for Research on Cancer)	
14464-46-1	cristobalite	1
14808-60-7	Quartz (SiO2)	1
· NTP (Natio	nal Toxicology Program)	
14464-46-1	cristobalite	K
14808-60-7	Quartz (SiO2)	K
· OSHA-Ca (	Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

### **12 Ecological information**

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

+ Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
· UN ''Model Regulation'':	-

#### **15 Regulatory information**

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

· Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

14464-46-1 cristobalite

14808-60-7 Quartz (SiO2)

 $\cdot$  Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

14464-46-1 cristobalite

14808-60-7 Quartz (SiO2)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

14464-46-1 cristobalite

14808-60-7 Quartz (SiO2)

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling: cristobalite Quartz (SiO2)
Hazard statements May cause cancer. Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

• **Precautionary statements** Get medical advice/attention if you feel unwell. Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

#### · Other regulations, limitations and prohibitive regulations

The product is a medical device according to the Directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

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Trade name: Virtual

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Date of preparation / last revision 05/04/2015 / 6