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Safety Data Sheet acc. to OSHA HCS

Printing date 11/04/2016

Version number 3

Reviewed on 11/04/2016

1 Identification

· Product identifier

· Trade name: Virtual XD: Light Fast Set, Light Regular Set

- · 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

	-	
Eye Irrit. 2A	H319	Causes serious eye irritation.
Carc. 1A	H350	May cause cancer.
STOT RE 1	Н372-Н373	Causes damage to organs through prolonged or repeated exposure. May cause
		damage to the lung through prolonged or repeated exposure. Route of exposure:
		Inhalation.

· 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: Quartz (SiO2) cristobalite*

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· Hazard statements
Causes serious eye irritation.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.
· Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid release to the environment.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Get medical advice/attention if you feel unwell.
Store locked up.
· 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)
· MTTA raings (scale 0 - 4)
Health = 1
Fire = 0
1 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *1 $Health = *1$
FIRE \bigcirc Fire = 0
REACTIVITY O Reactivity = 0
· Other hazards
· Results of PBT and vPvB assessment
• PBT : Not applicable.
• vPvB : Not applicable.
FI FD , 1101 appliedolo.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 14808-60-7	Quartz (SiO2)	<u>≤10%</u>
CAS: 14464-46-1	cristobalite	2.5-<10%
CAS: 27306-78-1	polysiloxane	2.5-<3%

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.

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• *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.
- 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
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 14808-60-7 Quartz (SiO2)

PEL see Quartz listing

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(Contd. of page 3) REL Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A TLV Long-term value: 0.025* mg/m³ *as respirable fraction CAS: 14464-46-1 cristobalite PEL ¹/₂ value from respirable dust formulae for Quartz REL Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A TLV Long-term value: 0.025* mg/m³ *as respirable fraction • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: • General protective and hygienic measures: Usual hygienic measures for dental practice and dental laboratories. 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: Light red · Odor: like peppermint · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Undetermined. Melting point/Melting range: Undetermined. Boiling point/Boiling range: (Contd. on page 5)

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· 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:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
• Density at 20 •C (68 •F):	1.260 - 1.270 g/cm ³ (10.515 - 10.598 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Nearly insoluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Solids content:	30.7 %	
• 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:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

- CAS: 14808-60-7 Quartz (SiO2)
- CAS: 14464-46-1 cristobalite

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· NTP (National Toxicology Program)

CAS: 14808-60-7 Quartz (SiO2)

CAS: 14464-46-1 cristobalite

· 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.
- · Ecotoxical effects:
- **Remark:** Harmful to fish
- 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.

Harmful to aquatic organisms

- · 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 · UN-Number · DOT, ADR,RID,ADN, ADN, IMDG, IATA Void · UN proper shipping name · DOT, ADR,RID,ADN, ADN, IMDG, IATA Void · Transport hazard class(es) · DOT, ADR,RID,ADN, ADN, IMDG, IATA · Class Void · Packing group · DOT, ADR,RID,ADN, IMDG, IATA Void

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· 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":	Void

15 Regulatory information

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

· Sara

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· Section 355 (extremely hazardous substances):					
None of the ingredients is listed.					
· 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:					
CAS: 14808-60-7 Quartz (SiO2)					
CAS: 14464-46-1 cristobalite					
· 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)					
CAS: 14808-60-7 Quartz (SiO2) A2					
CAS: 14464-46-1 cristobalite A2					
·NIOSH-Ca (National Institute for Occupational Safety and Health)					
CAS: 14808-60-7 Quartz (SiO2)					
CAS: 14464-46-1 cristobalite					
· GHS label elements					

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

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