ivoclar vivadent:

Safety Data Sheet according to HPR, Schedule 1

Printing date 03/23/2017

Version number 7

Reviewed on 01/19/2017

1 Identification

- · Product identifier
- · Trade name: Virtual Tray Adhesive

· Application of the substance / the mixture Adhesive for silicone impression materials

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 identification

Flammable Liquids - Category 3	H226 Flammable liquid and vapour.
Skin Irritation - Category 2	H315 Causes skin irritation.
Carcinogenicity – Category 2	H351 Suspected of causing cancer.
Reproductive Toxicity - Category 2	H361 Suspected of damaging fertility or the unborchild.
Specific Target Organ Toxicity - Single Exposure - Category 3	H336 May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure - Category 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard - Category 1	H304 May be fatal if swallowed and enters airway

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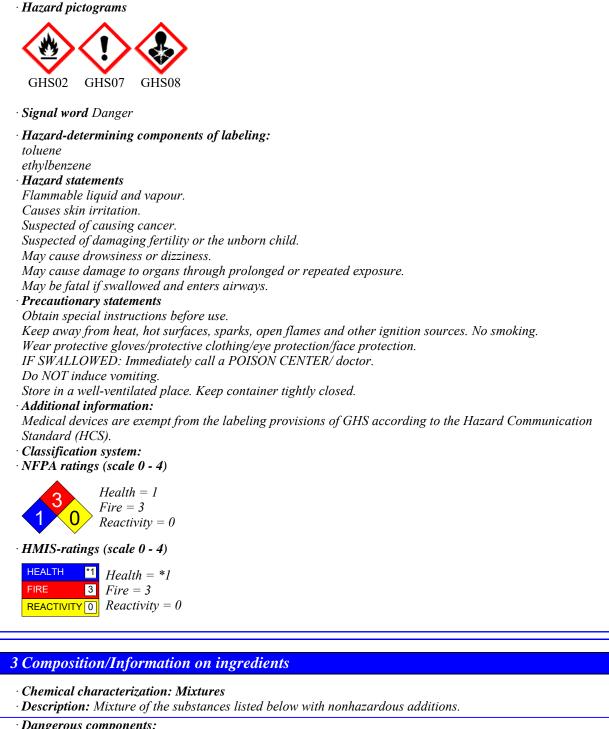
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• Dangerous com	Dangerous components:		
CAS: 1330-20-7	xylene	25-40% w/w	
CAS: 108-88-3	toluene	15-<20% w/w	
CAS: 67-63-0	propan-2-ol	1-1.5% w/w	

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4 First aid measures

· Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:
- *Čall a doctor immediately.*

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• 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:* Do not induce vomiting; immediately call for medical help.
- · 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

If swallowed or in case of vomiting, danger of entering the lungs. Later observation for pneumonia and pulmonary edema.

5 *Firefighting measures*

· Extinguishing media

• Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- · Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 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

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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t explosions and fires.

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- *Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Store receptacle in a well ventilated area.
- 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:
CAS: 1330-20-7 xylene
EL Short-term value: 150 ppm Long-term value: 100 ppm
EV Short-term value: 650 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
CAS: 108-88-3 toluene
EL Long-term value: 20 ppm R
EV Long-term value: 20 ppm
CAS: 67-63-0 propan-2-ol
EL Short-term value: 400 ppm Long-term value: 200 ppm
EV Short-term value: 400 ppm Long-term value: 200 ppm
• 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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
 Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Recommended filter device for short term use: Filter A1 Filter A2 Filter A3
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• Protection of hands:



Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.

• Material of gloves

Fluorocarbon rubber (Viton)

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:



Tightly sealed goggles

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Light blue
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	113 °C
Flash point:	27 °C
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	1.0 Vol %
Upper:	7.8 Vol %
Vapor pressure:	Not determined.
Density at 20 °C:	1.011 g/cm ³
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Partly miscible.

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· Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic:

Kinematic: Other information Not determined. Not determined. 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
- Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- 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

CAS: 1330	0-20-7 xyle	ne	
Oral	LD50	4300 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
CAS: 108-	88-3 tolue	ne	
Oral	LD50	5000 mg/kg (rat)	
Dermal	LD50	12124 mg/kg (rabbit)	
Inhalative	LC50/4 h	5320 mg/l (mouse)	
CAS: 100-	41-4 ethyll	benzene	
Oral	LD50	3500 mg/kg (rat)	
Dermal	LD50	17800 mg/kg (rabbit)	
on the eye Sensitizati	: No irritat on: No sen	to skin and mucous membranes. ting effect. isitizing effects known. ical information: No further relevant information available.	
Carcinoge	nic catego	ries	
IARC (Int	ernational	Agency for Research on Cancer)	
mine (im)-20-7 xyle	zne	3
			3
	88-3 tolu	iene	5

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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.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product 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:
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, TDG, IMDG, IATA	UN1133	
· UN proper shipping name		
· DOT, IMDG, IATA	ADHESIVES	
· ADR/RID/ADN	1133 ADHESIVES	
· Transport hazard class(es)		
·DOT		
· Class	3 Flammable liquids	
· Label	3	
• TDG (Transport dangerous goods):		

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Trade name: Virtual Tray Adhesive (Contd. of page 7) · Label 3 · IMDG, IATA · Class 3 Flammable liquids · Label 3 · Packing group · DOT, TDG, IMDG, IATA III · Environmental hazards: · Marine pollutant: No Warning: Flammable liquids · Special precautions for user Danger code (Kemler): 30 · EMS Number: F-E, S-D· Stowage Category A · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: · ADR/RID/ADN \cdot Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml ·IMDG 5L· Limited quantities (LQ) • Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN1133, ADHESIVES, 3, II · 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.				
Section 313 (Specific toxic chemical listings):				
CAS: 1330-20-7 xylene				
CAS: 108-88-3 toluene				
CAS: 100-41-4 ethylbenzene				
• TSCA (Toxic Substances Control Act):				
All ingredients are listed.				

GHS label elements

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

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(Contd. of page 8) · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: toluene ethylbenzene · Hazard statements Flammable liquid and vapour. Causes skin irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep container tightly closed. · 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. 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 03/23/2017 / 6
- · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative • * Data compared to the previous version altered.