ivoclar vivadeni:

Safety Data Sheet acc. to OSHA HCS

Printing date 03/25/2019

Version number 5

Reviewed on 01/23/2019

1 Identification

- · Product identifier
- · Trade name: Adhese Universal

· Application of the substance / the mixture Light-curing, single-component dental adhesive

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

- Flam. Liq. 3 H226 Flammable liquid and vapor.
- Skin Irrit. 2 H315 Causes skin irritation.
- *Eye Irrit.* 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Carc. 1A H350 May cause cancer.

· 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: 2-hydroxyethyl methacrylate ethanol Bis-GMA

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CAS: 10373-78-1 camphorquinone

CAS: 2867-47-2 2-dimethylaminoethyl methacrylate

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		(Contd. of page 1)
1,10-decandiol dir		
	osphoric acid ester	
2-dimethylaminoe		
• Hazard statement		
Flammable liquid	•	
Causes skin irritat		
Causes serious eye May cause an alle		
May cause an ane May cause cancer		
· Precautionary sta		
	eat/sparks/open flames/hot surfaces No smoking.	
	ust/fume/gas/mist/vapors/spray	
Wear protective g	loves/protective clothing/eye protection/face protection.	
	r rash occurs: Get medical advice/attention.	
	rsists: Get medical advice/attention.	
Additional inform		
Standard (HCS).	re exempt from the labeling provisions of GHS according to the	e Hazard Communication
· Classification syst		
·NFPA ratings (sc	ale 0 - 4)	
Fire	alth = 2 $e = 3$ $activity = 0$	
· HMIS-ratings (sc	ale 0 - 4)	
	ealth = *2 re = 3 eactivity = 0	
• Other hazards		
	nd vPvB assessment	
• PBT: Not applicat		
• vPvB: Not applica	ıble.	
2 Composition /in	nformation on ingredients	
5 Composition/in	Jormation on ingreatents	
	erization: Mixtures ure of the substances listed below with nonhazardous additions	s.
· Dangerous compo	onents:	
CAS: 868-77-9	2-hydroxyethyl methacrylate	10-25%
CAS: 36425-15-7		10-25%
CAS: 64-17-5	ethanol	10-25%
	1,10-decandiol dimethacrylate	≥2.5-<10%
CAS: 85590-00-7	methacrylated phosphoric acid ester	≥2.5-<10%
CIC 10070 70 1	1 7 .	1 10 50 1

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<2.5%

≥1-<2.5%

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4 First-aid measures

- · Description of first aid measures
- After inhalation:
- Supply fresh air and to be sure call for a 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:
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- 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.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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).
- · 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: 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 only in the original receptacle.
- · Information about storage in one common storage facility: Not required.

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- Further information about storage conditions:
- Protect from exposure to the light.
- Keep receptacle tightly sealed.
- 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: 64-17-5 ethanol

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- TLV Short-term value: 1880 mg/m³, 1000 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.
- 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.

• Protection of hands:



Protective gloves

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

• Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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.
- · Not suitable are gloves made of the following materials:

Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.

• Eye protection:



Tightly sealed goggles

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Information on basic physical and	chemical properties	
General Information	enemieu properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	36 °C (96.8 °F) (ASTM D7094)	
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:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): 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

Protect from exposure to the light.

Keep away from heat and direct sunlight.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: None under normal conditions of storage and use.

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 ethanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

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.
- · 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:

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, IMDG, IATA UN1170

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DOT Ethanol solutions ADR/RID/ADN 1170 Ethanol solutions (Ethyl alcohol solutions) IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IATA ETHANOL SOLUTION Transport hazard class(es) DOT JOT		(Contd. of pag
ADR(RD/ADN 1170 Exhanol solutions (Ethyl alcohol solutions) IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) IATA ETHANOL SOLUTION Transport hazard class(es) DOT Image: Class 3 Flammable liquids 2. Class 3 Flammable liquids 2. Label 3 Class 3 (F1) Flammable liquids 2. Class 3 (F1) Flammable liquids 2. Class 3 (F1) Flammable liquids 2. Class 3 (F1) Flammable liquids 3 MDG, IATA IMDG, IATA J Class 3 Flammable liquids 3 Date Packing group J DOT, ADR/RID/ADN, IMDG, IATA III Environmental hazards: No Marine pollutant: No Special precautions for user Warning: Flammable liquids Danger code (Kemler): 30 EMS Number: F5,S-D Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport in bulk according to Annex II of Maximum net quantity per inner packaging: 30 ml Maximum net quantity per inner packaging: 30 ml	· UN proper shipping name	
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IATA ETHANOL SOLUTION Transport hazard class(es) DOT DOT		
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not applicable. ADR/RID/ADN Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml IMDG SL Limited quantities (EQ) SL Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	· Danger code (Kemler):	
MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information:	· EMS Number:	F-E,S-D
 Transport/Additional information: ADR/RID/ADN Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml 		
 ADR/RID/ADN Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml IMDG Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml 	MARPOL73/78 and the IBC Code	Not applicable.
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Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml IMDG Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml	Excepted quantities (EQ)	Code: E1
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Limited quantities (LQ)5LExcepted quantities (EQ)Code: E1Maximum net quantity per inner packaging: 30 ml		Maximum net quantity per outer packaging: 1000 ml
• Excepted quantities (\widetilde{EQ}) Code: E1 Maximum net quantity per inner packaging: 30 ml	· IMDG	
Maximum net quantity per inner packaging: 30 ml	· Limited quantities (LQ)	
	\cdot Excepted quantities (EQ)	
Maximum net quantity per outer packaging: 1000 ml		
		<i>Maximum net quantity per outer packaging: 1000 ml</i>

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Trade name: Adhese Universal

· UN "Model Regulation":

UN1170, Ethanol solutions (Ethyl alcohol solutions), 3, III

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):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

• 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:

CAS: 64-17-5 ethanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

CAS: 64-17-5 ethanol

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

None of the ingredients is listed.

· 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:

2-hydroxyethyl methacrylate ethanol Bis-GMA 1,10-decandiol dimethacrylate methacrylated phosphoric acid ester 2-dimethylaminoethyl methacrylate

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Hazard statements
Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection.
If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

· 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 03/25/2019 / 4
 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids - Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation - Category 1 Carc. 1A: Carcinogenicity - Category 1A * Data compared to the previous version altered.