ivoclar vıvadenl:

Material Safety Data Sheet acc. to ISO 11014

Version number 10

Reviewed on 12/17/2013

Printing date 01/09/2014

1 Identification

- · Product identifier
- · Trade name: Monobond-S

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

- · Application of the substance / the preparation Bonding agent
- · 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 MSDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

2 Hazard(s) identification

· Classification of the substance or mixture

H226 Flammable liquid and vapour.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Flammable.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· Label elements

· Labelling according to EU guidelines:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Dangerous Preparations Directive 1999/45/EC usually if they are in the finished state and intended for the final user.

· Risk phrases:

Flammable.

· Safety phrases:

Keep container tightly closed. Keep away from sources of ignition - No smoking.

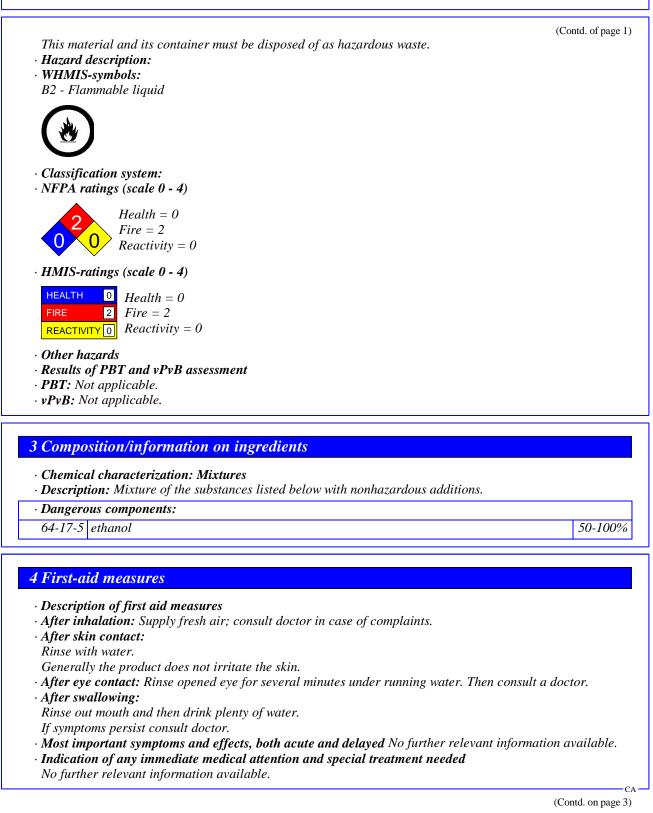
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5 Fire-fighting measures

· 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.
- · 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:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- \cdot 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

- Precautions for safe handling No special precautions are necessary if used correctly.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: 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:

64-17-5 ethanol

- EL Short-term value: 1000 ppm
- EV 1.900 mg/m³, 1.000 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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· Odor:

· Odour threshold:

· pH-value at 20 °C:

· Change in condition

· Ignition temperature:

· Danger of explosion:

• Vapor pressure at 20 °C:

· Explosion limits:

Density at 20 °C:
Relative density

· Vapour density

Lower:

Upper:

· Flash point:

· Auto igniting:

Melting point/Melting range:

Boiling point/Boiling range:

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· Exposure controls	
· Personal protective equip	ment:
• General protective and hy	gienic measures:
Usual hygienic measures f	for dental practice.
Keep away from foodstuffs	s, beverages and feed.
Wash hands before breaks	and at the end of work.
• Breathing equipment:	
	or low pollution use respiratory filter device. In case of intensive or longer protective device that is independent of circulating air.
· Protection of hands:	
The glove material has to b	be impermeable and resistant to the product/ the substance/ the preparation. kin-cleaning agents and skin cosmetics.
· Material of gloves	
quality and varies from ma	
	ime has to be found out by the manufacturer of the protective gloves and has to b
· Eye protection: Safety gla.	sses
9 Physical and chemica	al properties
· Information on basic phys	sical and chemical properties
· General Information	* *
· Appearance:	
Form:	Fluid
Color:	Colorless

Alcohol-like

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25 °C

425 °C

3.5 Vol %

15.0 Vol %

Not determined.

Not determined.

59 hPa 0.913 g/cm³

Not determined.

Undetermined.

Undetermined.

Product is not selfigniting.

vapor mixtures are possible.

Product is not explosive. However, formation of explosive air/

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• Evaporation rate	Not determined.	
· Solubility in / Miscibility with	la de la constante de la consta	
Water:	Soluble.	
• Partition coefficient (n-octan	ol/water): Not determined.	
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
	ol/water): Not determined. Not determined. Not determined.	

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.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

64-17-5 ethanol

· NTP (National Toxicology Program)

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.
- · *Bioaccumulative potential* No further relevant information available.
- · Mobility in soil No further relevant information available.
- 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.

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· **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.
- *Recommended cleansing agent:* Water, if necessary with cleansing agents.

UN-Number DOT	UN1170
	1170
TDG, IMDG, IATA	11/0
UN proper shipping name	
DOT, IATA	ETHANOL, solution
TDG	1170 ETHANOL (ETHYL ALCOHOL), solution
IMDG	ETHANOL (ETHYL ALCOHOL), solution
Transport hazard class(es)	
DOT	
I CAMMARE LOCIO	
Class	3 Flammable liquids.
Label TDG (Transport dangerous goods):	3
Class Label	3 (F1) Flammable liquids 3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group DOT, TDG, IMDG, IATA	III
Environmental hazards:	
Litti Onnicitul nugaras.	

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• Special precautions for user	Warning: Flammable liquids	
· Danger code (Kemler):	30	
• EMS Number:	F-E,S-D	
• Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· UN ''Model Regulation'':	UN1170, ETHANOL (ETHYL ALCOHOL), solution, 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:

64-17-5 ethanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

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

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Dangerous Preparations Directive 1999/45/EC usually if they are in the finished state and intended for the final user.

· Risk phrases:

Flammable.

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· Safety phrases:

Keep container tightly closed. Keep away from sources of ignition - No smoking. This material and its container must be disposed of as hazardous waste.

· 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.

 Abbreviations and acronyms: 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) WHMIS: Workplace Hazardous Materials Information System (Canada)
 * Data compared to the previous version altered.

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