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Material Safety Data Sheet acc. to ISO 11014

Version number 6

Reviewed on 04/11/2015

Printing date 05/20/2015

1 Identification	
· Product identifier	
· Trade name: IPS d.SIGN Glaze and Stain Liquid	
· CAS Number:	
107-88-0	
• EC number: 203-529-7	
 205-529-7 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Auxiliary for manufacture of dental prothesis 	
• Details of the supplier of the safety data sheet	
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:	
Ivoclar Vivadent Inc.	
175 Pineview Drive, Amherst, N.Y. 14228	
USA	
<i>Tel.</i> +1 800 533 6825	
Fax +1 716 691 2285	
Ivoclar Vivadent Inc.	
1-6600 Dixie Road	
Mississauga, Ontario	
L5T 2Y2	
Canada Pl	
Phone: +1 905 670 8499 Fax: +1 905 670 3102	
 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	
• <i>Classification of the substance or mixture</i> The substance is not classified according to the Globally Harmonized System (GHS).	
• Label elements • GHS label elements Void	
• Hazard pictograms Void	
· Signal word Void	
Hazard statements Void Classification system:	
• Classification system: • NFPA ratings (scale 0 - 4)	
$\begin{array}{c} Health = 0 \\ Find = 1 \end{array}$	
$\begin{array}{c} & & \\$	
$\checkmark \qquad \checkmark \qquad \qquad$	
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· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 107-88-0 butane-1,3-diol
- · Identification number(s)
- EC number: 203-529-7

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse out mouth and then drink plenty of water.
- · 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: Use fire fighting measures that suit the environment.
- · 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: Dilute with plenty of water.*
- 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** No dangerous substances are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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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: This product is hygroscopic.
- *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: Not required.
- 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.
- · 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.

· 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: Goggles recommended during refilling.*

· Information on basic physical and chemical properties · General Information			
· Appearance:			
Form:	Fluid		
Color:	Colorless		
Odor:	Characteristic		
• Odour threshold:	Not determined.		

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pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-50 °C
Boiling point/Boiling range:	207 °C
Flash point:	109 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	375 °C
Auto igniting:	Not determined.
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:	1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/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. Reacts with oxidizing agents.
- · 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:

· LD/LC50 values that are relevant for classification:

107-88-0 butane-1,3-diol

Oral LD50 18610 mg/kg (rat)

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· Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information: No further relevant information available.

· Carcinogenic categories

· NTP (National Toxicology Program)

Substance is not listed.

- · OSHA-Ca (Occupational Safety & Health Administration)
- Substance is not 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 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:

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Smaller quantities can be disposed of with household waste.

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

- · Uncleaned packagings:
- $\cdot \textit{Recommendation:}$ Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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

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· Packing group · DOT, TDG, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	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):	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
· TSCA (Toxic Substances Control Act):	
Substance is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
• Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity:	
Substance is not listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
Substance is not listed.	
· TLV (Threshold Limit Value established by ACGIH)	
Substance is not listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
· GHS label elements Void	
• Hazard pictograms Void	
· Signal word Void	
• Hazard statements Void	(Centil en a. 7)
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· 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 05/20/2015 / 5

• Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation 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

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 • * Data compared to the previous version altered.