# ivoclar vivadent

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## Safety Data Sheet acc. to OSHA HCS

Printing date 05/22/2015

Version number 4

Reviewed on 04/18/2015

## **1 Identification**

· Product identifier

• Trade name: IPS Empress Universal Glaze Spray / IPS e.max Ceram Glaze

<u>Spray</u>

*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 • 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

· Classification of the substance or mixture

Flam. Aerosol 1H222-H229Extremely flammable aerosol. Pressurized container: May burst if heated.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.

· 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: propan-2-ol

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## Trade name: IPS Empress Universal Glaze Spray / IPS e.max Ceram Glaze Spray

(Contd. of page 1) · Hazard statements Extremely flammable aerosol. Pressurized container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear eye protection / face protection. Pressurized container: Do not pierce or burn, even after use. Do not breathe spray. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 0Reactivity = 3· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRE 0 Fire = 0**REACTIVITY 3** *Reactivity* = 3· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
75-28-5	isobutane	50-100%
67-63-0	propan-2-ol	25-50%

#### 4 First-aid measures

- · Description of first aid measures
- After inhalation:
- Supply fresh air.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- Rinse with water.
- Generally the product does not irritate the skin.
- 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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## Trade name: IPS Empress Universal Glaze Spray / IPS e.max Ceram Glaze Spray

• *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. • 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: Do not inhale explosion gases or combustion gases.
- 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. Ensure adequate ventilation*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up: Ensure adequate ventilation.*

Absorb liquid components with liquid-binding material.

• **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.
Keep away from heat and direct sunlight.
Open and handle receptacle with care.
Use only in well ventilated areas.

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.
  Store only in the original receptacle.
  Observe official regulations on storing packagings with pressurized containers.
  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. Protect from heat and direct sunlight.

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## Trade name: IPS Empress Universal Glaze Spray / IPS e.max Ceram Glaze Spray

· 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:
- 75-28-5 isobutane

TLV Short-term value: 2370 mg/m<sup>3</sup>, 1000 ppm

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

- REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- TLV Short-term value: 984 mg/m<sup>3</sup>, 400 ppm Long-term value: 492 mg/m<sup>3</sup>, 200 ppm BEI

· Ingredients with biological limit values:

67-63-0 propan-2-ol

BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

• 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. Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes.

· Breathing equipment:

Not necessary if room is well-ventilated.

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:

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. After use of gloves apply skin-cleaning agents and skin cosmetics.* 

· 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.

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En en esta d'anna	(Contd. of page
• Eye protection:	
Tightly sealed goggles	
Tignity seared goggies	
9 Physical and chemical proper	rties
· Information on basic physical and	chemical properties
• General Information • Appearance:	
Form:	Aerosol
Color:	Whitish
· Odor:	Characteristic
• Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	Not applicable, as aerosol.
· Flammability (solid, gaseous):	Not applicable.
· 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:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· 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 Danger of explosion.

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- · Conditions to avoid 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.

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information: No further relevant information available.

#### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

· 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 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

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		(Contd. of page 7)
$\cdot$ Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
· UN ''Model Regulation'':	UN1950, Aerosols, 2.1	

## **15 Regulatory information**

~ ~ ~ ~ ~ ~ ~			
· Safety, health and environmental	l rogulations/logislation	n cnacific for tha cub	stance or mirture
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· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act):

75-28-5 isobutane

67-63-0 propan-2-ol

· 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:* 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)

67-63-0 propan-2-ol

· 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: propan-2-ol

• *Hazard statements Extremely flammable aerosol. Pressurized container: May burst if heated.* 

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A4

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## Trade name: IPS Empress Universal Glaze Spray / IPS e.max Ceram Glaze Spray

(Contd. of page 8)
Causes serious eye irritation.
May cause drowsiness or dizziness. **Precautionary statements**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear eye protection / face protection.
Pressurized container: Do not pierce or burn, even after use.
Do not breathe spray.
Do not spray on an open flame or other ignition source.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
National regulations:
Other regulations, limitations and prohibitive regulations
The product is a medical device according to the Directive 93/42/EEC.

This product is a medical device according to the Directive Sch 25 126. 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 05/22/2015 / 3

· 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) Flam, Aerosol 1: Flammable aerosols, Hazard Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 • \* Data compared to the previous version altered.