# ivoclar

## Safety Data Sheet according to WHS Regulations

Printing date 29.06.2023

Version number 3

Revision: 28.06.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

## **1** Identification

· Product identifier

Trade name: IPS e.max ZirCAD MT Colouring Liquid A3, A3.5, A4, B3, B4 / IPS e.max ZirCAD LT Colouring Liquid A3, A3.5 B3, B4 IPS e.max ZirCAD MT Colouring Liquid brown / IPS e.max ZirCAD LT Colouring Liquid brown

 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture Manufacture of dental prothesis

Colouring Liquid

Details of the supplier of the safety data sheet
Manufacturer/Supplier: Ivoclar Vivadent AG Bendererstrasse 2
9494 Schaan
PRINCIPALITY OF LIECHTENSTEIN Tel: +423 235 35 35 / Fax: +423 235 33 60

Importer: Ivoclar Vivadent Pty. Ltd. 1- 5 Overseas Drive Noble Park North VIC 3174 Tel: + 61 3 9795 9599 / Fax: + 61 3 9795 9645

 Further information obtainable from: Regulatory Affairs sds@ivoclarvivadent.com
 Emergency telephone number: 131 126 (Poisons Information Centre - 24 hours / 7 days)

## 2 Hazard(s) Identification

· Classification of the substance or mixture

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

*Eye Dam. 1* H318 Causes serious eye damage.

#### · Label elements

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Danger

• Hazard-determining components of labelling: inorganic nitrate salts

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• Hazard statements Causes severe skin burns and eye damage.

· Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.* 

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.* 

Immediately call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

### **3** Composition and Information on Ingredients

• Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dungerous components.		
CAS: 10031-51-3	Erbium(III) nitrate pentahydrate	10-25%
	Ox. Sol. 2, H272; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	
CAS: 7782-61-8		2.5-10%
	Ox. Sol. 2, H272; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	
$\mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} $		

• *Additional information:* For the wording of the listed hazard phrases refer to section 16.

#### 4 First Aid Measures

- · After inhalation:
- 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.
- After eye contact:
- Rinse opened eye for several minutes under running water.
- Call a doctor immediately.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- Seek medical treatment.
- 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**

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

• Special hazards arising from the substance or mixture No further relevant information available.

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• *Protective equipment:* No special measures required. • *Additional information* See Section 14 for Hazchem Code.

#### 6 Accidental Release Measures

- $\cdot$  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 fire and explosion protection: No special measures required.
- · 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:
- Keep container tightly sealed.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- 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. Immediately remove all soiled and contaminated clothing Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.

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Protection of hands:	(Contd. of page 3)
Protective gloves (EN 374)	
Trolective gloves (EIV 574)	
	ble and resistant to the product/ the substance/ the preparation.
After use of gloves apply skin-cleaning	agents and skin cosmetics.
Material of gloves	
Natural rubber, NR	
Chloroprene rubber, CR	
Nitrile rubber, NBR	
Butyl rubber, BR	
Fluorocarbon rubber (Viton)	idention of the periodician times rates of diffusion and the
degradation	ideration of the penetration times, rates of diffusion and the
Penetration time of glove material	
	found out by the manufacturer of the protective gloves and has to be
observed.	
Eye protection:	
Tightly sealed goggles	
Tightly sealed goggles (FN 166)	
Tightly sealed goggles (EN 166)	
Tightly sealed goggles (EN 166)	
Tightly sealed goggles (EN 166) Physical and Chemical Properti	es
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Physical and Chemical Properti	es
Physical and Chemical Properti General Information	es Fluid
Physical and Chemical Properti General Information Appearance:	
Physical and Chemical Properti General Information Appearance: Form:	Fluid
Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour: Odour threshold:	Fluid Different according to colouring Characteristic Not determined.
Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C:	Fluid Different according to colouring Characteristic
Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value at 20 °C: Change in condition	Fluid Different according to colouring Characteristic Not determined. < 2
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Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Flammability (solid, gas): Auto-ignition temperature: Explosive properties:	Fluid Different according to colouring Characteristic Not determined. < 2 Undetermined. : Undetermined. Undetermined. Not applicable. Product is not selfigniting. Product does not present an explosion hazard.
Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Flammability (solid, gas): Auto-ignition temperature: Explosive properties: Vapour pressure:	Fluid Different according to colouring Characteristic Not determined. < 2 Undetermined. : Undetermined. Undetermined. Not applicable. Product is not selfigniting. Product does not present an explosion hazard. Not determined.
Physical and Chemical Properti General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value at 20 °C: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Flammability (solid, gas): Auto-ignition temperature: Explosive properties: Vapour pressure: Density:	Fluid Different according to colouring Characteristic Not determined. < 2 Undetermined. : Undetermined. Undetermined. Not applicable. Product is not selfigniting. Product does not present an explosion hazard. Not determined. Not determined.
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• Viscosity:

• Dynamic:

· Kinematic:

Not determined. 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 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 Based on available data, the classification criteria are not met.

· Skin corrosion/irritation

- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- *STOT-single exposure Based on available data, the classification criteria are not met.*
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **12 Ecological Information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behaviour 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 (German Regulation) (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.

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• *Other adverse effects No further relevant information available.* 

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### **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 packaging:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3264
UN proper shipping name	
ADG	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,
	N.O.S. (inorganic nitrate salts)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (inorganic nitrate salts)
Transport hazard class(es)	
ADG	
$\sim$	
Le la	
Class Label	8 (C1) Corrosive substances. 8
	0
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group	
ADG, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
Hazchem or Emergency Action Code:	2X
EMS Number:	F-A,S-B
Segregation groups Stowage Category	Acids B

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	(Contd. of page
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II and the IBC Code	of Marpol Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	1L
Excepted quantities $(\tilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC,
0	INORGANIC, N.O.S. (INÕRGANIC NITRATE SALTS) 8, II

## **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Inventory of Industrial Chemicals

CAS: 7782-61-8 Iron(III) nitrate nonahydrate

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

GHS label elements

*The product is classified and labelled according to the Globally Harmonised System (GHS). Hazard pictograms* 



· Signal word Danger

• *Hazard-determining components of labelling:* inorganic nitrate salts

• Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

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IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.* 

Immediately call a POISON CENTER/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

- Other regulations, limitations and prohibitive regulations The product is a medical device according to Regulation 2017/745 on Medical Devices (MDR).
- 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.

#### · Relevant phrases

H272 May intensify fire; oxidizer. H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Contact:

• Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Sol. 2: Oxidizing solids – Category 2 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 \* \* Data compared to the previous version altered.