

**Safety Data Sheet**  
according to WHS Regulations

Printing date 06.03.2020

Version number 1

Revision: 06.03.2020

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

· **Product identifier**

· **Trade name:** Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights

· **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 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**

The product is not classified, according to the Globally Harmonised System (GHS).

· **Label elements**

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation:** Substances Rechargeable Lithium-Ion-Batterie or Lithium-Polymer-Batterie

· **Chemical characterisation:** Mixtures

· **Description:**

The materials contained in the battery may only become a hazard if the battery or the cell is damaged or if the battery is physically or electrically abused.

(Contd. on page 2)

## Safety Data Sheet

### according to WHS Regulations

Printing date 06.03.2020

Version number 1

Revision: 06.03.2020

**Trade name: Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights**

(Contd. of page 1)

· **Dangerous components:** Void

#### 4 First Aid Measures

· **Description of first aid measures**

· **General information:**

*In case of contact with the materials from a damaged or ruptured cell or battery see the following 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:**

*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.*

*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

· **Extinguishing media**

· **Suitable extinguishing agents:**

*Fire-extinguishing powder*

*Carbon dioxide*

· **Special hazards arising from the substance or mixture**

*Toxic gases will be formed if cells or battery are involved in a fire. Cells or battery may flame or leak potentially hazardous organic vapor if exposed to excessive heat, fire or over-voltage conditions. Damaged or opened cells or batteries may result in rapid heat and the release of flammable vapors.*

· **Advice for firefighters**

· **Protective equipment:** *Wear self-contained respiratory protective device.*

#### 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

*Should a battery unintentionally be crushed, thus releasing its contents, rubber gloves must be used to handle all battery components. Avoid inhalation of any vapors that may be emitted.*

· **Environmental precautions:** *No special measures required.*

· **Methods and material for containment and cleaning up:**

*The material contained within the batteries would only be expelled under abusive conditions.*

*Spilled substances with dry sand or vermiculite.*

· **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.*

-AU

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 06.03.2020

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Revision: 06.03.2020

**Trade name: Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights**

(Contd. of page 2)

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Only adequately trained personnel should handle this product.  
For use in dentistry only.  
Do not store batteries in a manner that allows terminals to short circuit.
- **Information about fire - and explosion protection:**  
Please note that lithium-polymer batteries may react with explosion, fire, and smoke development if handled improperly or mechanically damaged.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Do not store at temperatures above 40 °C / 104 °F (or 60 °C / 140 °F for a short period).
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** 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.
- **Control parameters**
- **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:** Under normal conditions release of ingredients does not occur.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Usual hygienic measures for dental practice and dental laboratories.
- **Respiratory protection:**  
Not required.  
If the battery is damaged:  
In case of battery rupture and fumes, use self-contained full-face respiratory equipment.
- **Protection of hands:**  
Not required.  
If the battery is damaged:



Protective gloves

- **Material of gloves**  
Butyl rubber, BR  
Fluorocarbon rubber (Viton)  
Chloroprene rubber, CR
- **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:**  
Not required.

(Contd. on page 4)

## Safety Data Sheet

according to WHS Regulations

Printing date 06.03.2020

Version number 1

Revision: 06.03.2020

**Trade name: Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights**

(Contd. of page 3)

If the battery is damaged:



Tightly sealed goggles

Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery.

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Solid
· <b>Colour:</b>	Not determined.
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· <b>Melting point/freezing point:</b>	Not applicable.
· <b>Initial boiling point and boiling range:</b>	Not applicable.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Product is not flammable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Not determined.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure:** Not applicable.

· <b>Density:</b>	Not applicable.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with water:** Not applicable.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.

· **Solvent content:**

· <b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

AU

(Contd. on page 5)

## Safety Data Sheet according to WHS Regulations

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**Trade name: Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights**

(Contd. of page 4)

### 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:**  
Do not short circuit battery.  
Do not store at temperatures above 40 °C / 104 °F (or 60 °C / 140 °F for a short period).
- **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:**  
The electrolytes and electrolyte fumes released during explosion, fire, and smoke development are toxic and corrosive.  
None under normal conditions of storage and use.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Other information:**  
When properly used or disposed rechargeable Lithium-Ion/Polymer-Batteries do not present environmental hazard.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **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**  
Disposal must be made according to official regulations.  
May explode if disposed of in fire.

(Contd. on page 6)

AU

## Safety Data Sheet

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(Contd. of page 5)

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

### 14 Transport information

· <b>UN-Number</b> · <b>ADG, IMDG, IATA</b>	UN3480
· <b>UN proper shipping name</b> · <b>ADG</b> · <b>IMDG, IATA</b>	3480 LITHIUM ION BATTERIES LITHIUM ION BATTERIES
· <b>Transport hazard class(es)</b> · <b>ADG</b> · <b>Class</b> · <b>Label</b>	9 (M4) Miscellaneous dangerous substances and articles. 9
· <b>IMDG, IATA</b> · <b>Class</b> · <b>Label</b>	9 Miscellaneous dangerous substances and articles. 9A
· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	Warning: Miscellaneous dangerous substances and articles. - F-A,S-I
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	The batteries meets all the requirements of special provisions ADR 188, IMDG 188 and IATA DGR packaging instructions 965 Section IB.
· <b>ADG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b> · <b>Transport category</b> · <b>Tunnel restriction code</b>	0 Code: E0 Not permitted as Excepted Quantity 2 E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	0 Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 3480 LITHIUM ION BATTERIES, 9

AU

(Contd. on page 7)

## Safety Data Sheet according to WHS Regulations

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Revision: 06.03.2020

**Trade name: *Lithium ion batteries or lithium polymer batteries for Bluephase LED polymerization lights***

(Contd. of page 6)

### 15 Regulatory information

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

· *Australian Inventory of Chemical Substances*

*None of the ingredients is listed.*

· *Standard for the Uniform Scheduling of Medicines and Poisons*

*None of the ingredients is listed.*

· *GHS label elements* Void

· *Hazard pictograms* Void

· *Signal word* Void

· *Hazard statements* Void

· *Directive 2012/18/EU*

· *Named dangerous substances - ANNEX I* Substance is not listed.

· *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:**

*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*

*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*