

Material Safety Data Sheet

according to NOHSC:2011(2003)



Product name : Ivoclar Vivadent IPS Empress Direct
Statement of Hazardous Nature : This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.
Revision : 18.11.2014 **Version :** 1.0.1
Print date : 18.11.2014

01. Identification of substances, preparation and company

Product name: Ivoclar Vivadent IPS Empress Direct
Use of the substance / preparation: Light-curing restorative
Manufacturer / Supplier: Ivoclar Vivadent AG
Street / P O Box: Benderstrasse 2
Country code / Postal Code / Town / City: FL-9494 Schaan
Principality of Liechtenstein
Telephone: + 423 235 35 35
Telefax: + 423 235 33 60
Distributor: Ivoclar Vivadent Pty Ltd
1 – 5 Overseas Drive
Noble Park North VIC 3174
Australia
Telephone: + 61 3 9795 9599
Telefax: + 61 3 9795 9645
Emergency information: Poisons Information Centre: Dial 13 11 26
24 hours a day, 7 days a week – Australia wide

02. Hazards identification

Statement of Hazardous Nature

This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.

Hazard designation

Classification: Not classified as a dangerous good for transport.



Xi – Irritant



Xi: Sensitising

ADG Classification: Not classified

UN Number: Not classified

Particular information pertaining specific risk for human and environment

R phrases

R36 | Irritating to eyes.
R36/38 | Irritating to eyes and skin.
R38 | Irritating to skin.
R41 | Risk of serious damage to eyes.
R43 | May cause sensitisation by skin contact.
R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

S2 | Keep out of reach of children.
S24 | Avoid contact with skin.
S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 | Wear suitable gloves and eye/face protection.
S60 | This material and its container must be disposed of as hazardous waste.

03. Composition / information on ingredients

Chemical characterisation

Paste of dimethacrylates, inorganic fillers, copolymer, ytterbium trifluoride initiators, stabilisers, pigments and other non-hazardous materials.

Hazardous components

CAS NO: 72869-86-4	10-25%	Urethane dimethacrylate	EINECS: 276-957-5	Xi: R36 R43 R52/53
CAS NO: 43048-08-4	2.5-10%	Tricyclodocandimethanol-dimethacrylate	EINECS: 256-062-6	Xi: R38 R41
CAS NO: 1565-94-20	2.5-10%	Bis-GMA	EINECS:	Xi: R36/38

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Dangerous component / Risk phrases:

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04. First-aid measures**General**

Immediately remove all contaminated clothing. Let in fresh air. In case of unconsciousness, place patient stably in side position and seek medical assistance immediately.

After inhalation

Let in fresh air. Remove to fresh air. Seek medical assistance immediately.

After skin contact

After contact with skin, wash immediately with plenty of soap and water.

After eye contact

Flush with plenty of water (10 – 15 minutes) and seek medical assistance immediately.

After ingestion

Rinse out mouth with plenty of water. Do not induce vomiting. Seek medical assistance immediately.

05. Fire-fighting measures**Suitable extinguishing media**

Carbon dioxide, extinguishing powder, water spray. Fight larger fires with water spray or alcohol resistant foam. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Cool containers in vicinity of the blaze using water spray.

Avoid inhalation of vapours generated by fire.

Do not allow to flow off into the drains, surface water / ground water.

Special protective equipment

When extinguishing fires, use breathing apparatus with an independent source of air.

Firefighters should wear full protective clothing including self-contained breathing apparatus.

06. Accidental release measures**Personal precautions**

Wear suitable protective clothing, gloves and eye / face protection.

Environmental precautions

Prevent from flowing into surface water / ground water.

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

Methods for cleaning up / collecting

Do not allow to flow off into the drains, surface water / ground water.

Take up with a mechanical source and precede according to the water disposal regulations.

Clean up with liquid binding material (sand, dolomite, acid binders, universal binders and sawdust).

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

Additional information

Prevent skin and eye contact.

07. Handling and storage**Information for safe handling**

Containers to be opened and handled with care. Make sure ventilation is adequate. Use only in a well-ventilated area.

Only adequately trained personnel should handle this product.

Keep out of reach of children.

When using – do not eat, drink or smoke.

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Information about protection against explosions and fires

No anti-explosion measures necessary.

Requirements to be met by storerooms and containers

Store only in original container.

Store in a dry, well-ventilated area in the original container. Keep container tightly closed.

Store at 2 – 28°C / 36 – 82°F. Do not store in open sunshine. Keep away from heat source.

Information about separation of incompatible products

Store foodstuffs separately.

08. Exposure controls and personal protection

Additional information about engineering measures

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Components with critical values that require monitoring at the workplace (exposure limits)

none

Specifications: | Not applicable

Long term value: | Not applicable

Personal protective equipment

Do not eat or drink during work. No smoking. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes.

Respiratory protection

Provide for good ventilation.

Hand protection

Short-term exposure (<30mins): disposable gloves, eg: nitrile rubber, material thickness 0.1mm (Australian Standard 2161). Long-term exposure (Level 6: < 480min): protective gloves, eg: nitrile rubber, material thickness 0.7mm (Australian Standard 2161).

Commercial medical gloves do not provide protection against the sensitising effect of methacrylates.

Check penetration time for the specific gloves used with the glove manufacturer. Solvent resistant gloves.

Use nitrile gloves.

Eye protection

Avoid contact with eyes. Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337).

An eyewash fountain should be located in the immediate working area. Wear eye protection when mixing or using. Use approved close fitting safety goggles and / or visor for splash protection.

Body protection

No particular measures required.

09. Physical and chemical properties

Image

Form: | Pasty
 Colour: | According to product specifications
 Odour: | Characteristic

Relevant safety data

Melting point/range:	(1013 hPa)		Undetermined	°C	DIN 51755
Boiling point/range:	(1013 hPa)	ca.	Undetermined	°C	
Flash point:			n/a	°C	
Ignition temperature			n/a	°C	
Explosion limit lower			Not determined	Vol %	
Explosion limit higher			Not determined	Vol %	
Viscosity:			Not determined	mPas	
Vapour pressure:			Not determined	hPa	
Density:	(20°C)		1.94	g/cm ³	
Solubility in water:	(20°C)		Nearly insoluble	g/l	
pH value:			Not determined		

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10. Stability and reactivity

Conditions to avoid

Stable under normal handling and storage conditions.
Avoid excessive heat and direct sunlight.
Photo-reactive – danger of polymerisation.

Materials to avoid

No dangerous reaction known.

Hazardous decomposition products

None under normal conditions of storage and use.

11. Toxicological information

Toxicological tests

Primary irritant effect

Irritant to eyes, skin and mucous membranes. Irritating to eyes.

Sensitisation

Prolonged or repeated exposure may cause drying or irritation of the eyes, skin and mucous membranes.

Experience on practice

Prolonged or repeated exposure may cause drying or irritation of the eyes, skin and mucous membranes.
Avoid contact with eyes and skin.

12. Ecological information

Details on elimination (persistence / degradability)

Abiotal elimination

No data available.

Biological degradation / elimination

No data available.

Fate in environmental compartments

Hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
The product must not enter effluent, ground water, surface water or the soil.

Ecotonical effects

Performance in sewage/treatment plants

The product must not enter effluent, ground water, surface water or the soil.

13. Disposal consideration

Product

Concentrate: Avoid contamination of ground water or waterways.

The product must not enter effluent, ground water, surface water or the soil.

Clean up with liquid binding material (sand, dolomite, acid binders, universal binders and sawdust).

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Un-cleaned packaging must be disposed of in the same manner as the medium.

Responsibility for proper waste disposal rests with the generator of the waste.

Dispose of any waste material (including containers) in accordance with all applicable Local, State and Federal government regulations regarding waste management methods.

14. Transport information

Land transport ADG

Classification: Not classified as a dangerous good for transport.

ADG Class: Not classified

UN Number: Not classified

Label: Not classified

Packing Group: Not classified

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Maritime transport IMDG

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ADNR Class:	Not classified
UN Number:	Not classified
Label:	Not classified
Packing Group:	Not classified

Air transport ICAO-TI and IATA-DGR

Classification: Not classified as a dangerous good for transport.

ICAO/IATA Class:	Not classified
UN Number:	Not classified
Label:	Not classified
Packing Group:	Not classified

15. Regulatory information

Danger symbol and danger designation



Xi – Irritant



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Hazard-determining components of labelling

Not classified

R phrases

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16. Other information

Processing instructions / technical data sheets

Please observe the label / directions for use.

Further information

Important Note: The above-mentioned data corresponds to our present state of knowledge and experience as of the date noted and are for use only as a guide in connection with occupational health and safety. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on the properties of the product.

We make no representation, guarantee or warranty, express or implied, as to the accuracy, reliability or completeness of the information and assume no responsibility for injury damage or loss resulting from the use of the material.

Contact

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Tel: + 61 3 9795 9599

This data is based on our present knowledge; however, this shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.