

Material Safety Data Sheet

according to NOHSC:2011(2003)



Product name : Ivoclar Vivadent IPS d.SIGN Opaquer liquid
Statement of Hazardous Nature : This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.
Revision : 27.01.2011 **Version :** 1.0.0
Print date : 27.01.2011

01. Identification of substance, preparation and company

Product name : Ivoclar Vivadent IPS d.SIGN Opaquer liquid

Use of the substance / preparation : Ceramic

Manufacturer/Supplier : Ivoclar Vivadent AG
Street/P.O.Box : Benderstrasse 2 FL-9494
Country code/Postal code/Town/City : D-Schaan Fürstentum Liechtenstein
Telephone : +423/235 35 35
Telefax : +432/235 33 60
Distributor : Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174
Phone No.: +61-3 9795 9599, Tele fax No.: +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 not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission.
Non-Dangerous Goods according to ADG. Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

Hazard designation

Classification : Not classified
ADG Classification: not classified
UN Number: not classified

Particular information pertaining specific risk for human and environment

None, if handled according to order. May cause sensitisation by skin contact with skin. Irritating to eyes, skin and mucus membranes.

03. Composition/information on ingredients

Chemical characterization Mixture of butanediol, glycerine and polymer

Hazardous components

None, if used in accordance to instructions.

Other ingredients determined not be hazardous

None

04. First-aid measures

General

Immediately remove all contaminated clothing.

After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

After skin contact

Flush with plenty of water. Wash thoroughly with soap and water

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After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

After ingestion

Drink plenty of water. Do not induce vomiting. Contact a doctor immediately. No hazards anticipated from swallowing small amounts incidentally

05. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide. Extinguishing powder. Water fog, foam, dry chemicals. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media

Do not use direct water stream.

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

None known.

Special protective equipment

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

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.

Methods for cleaning up/collecting

Take up with a mechanical source and proceed according to the waste disposal regulations.

Additional information

Remove according to regulations. Cool containers in the vicinity of the blaze using a water spray. Clean up with absorbent material. Prevent skin and eye contact. Clean area with large amounts of water.

07. Handling and storage

Information for safe handling

Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children. When using, do not eat, drink or smoke.

Information about protection against explosions and fires

No anti-explosion measures necessary.

Requirements to be met by storerooms and containers

Keep only in the original container. Store at 2-28 °C / 36-82 °F Do not store in open sunshine. Keep away from heat source. Avoid exposure to light.

Information about separation of incompatible products

Store the foodstuffs separately.

08. Exposure controls and personal protection

Additional information about engineering measures

No particular measures required. Technical measures Provide adequate local ventilation. Control airborne concentration below the exposure guideline.

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

Dust and Vapours

Specification : TWA (AUS)

Value : MAK 0 mg/m³

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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

Respiratory protection

Provide for good ventilation. Do not breath vapours During mixing it is recommended to apply local exhaust ventilation.

Hand protection

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

Eye protection

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

Body protection

No particular measures required.

09. Physical and chemical properties

Image

Form : liquid
Colour : transparent colourless
Odour : practically odourless

Relevant safety data

Melting point / range :	(1013 hPa)	ca.	not applicable	°C	
Casting point / range :	(1013 hPa)		not applicable	°C	
Flash point :			>100	°C	DIN 51755
Ignition temperature :			>390	°C	
Lower explosion limit :			0.06	% b.v.	
Upper explosion limit :			not applicable	% b.v.	
Density :	(20 °C)		1	g/cm ³	
Solubility in water :	(20 °C)		soluble	% b.w.	
pH value :			Not determined		

10. Stability and reactivity

Conditions to avoid

None, if handled according to order.

Materials to avoid

None known.

Hazardous decomposition products

. Product may decompose at elevated temperatures generating vapours which could be irritating.

11. Toxicological information

Toxicological tests

Oral LD50 for rats: 18610 mg/kg

Primary irritant effect

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

Sensitization

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Excessive exposure may cause eye and respiratory irritation.

Experience on practice

Excessive exposure may cause eye and respiratory irritation.

12. Ecological information

No ecological problems to be anticipated if properly handled and used. Do not discharge the liquid to sewers or natural waters. nearly insoluble

Details on elimination (persistence / degradability)

Abiotal elimination

No data available.

Biological degradation / elimination

No data available.

Fate in environmental compartments

There are no data available on the preparation itself.

Ecotoxic effects

Performance in sewage-treatment plants

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

13. Disposal considerations

Product

Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.

Contaminated packaging

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

14. Transport information

Land transport ADG

Classification EU waste key 18 01 07

Class : - ADR
 UN Number RID
 Packing Group Proper Kemler Number
 shipping name

Maritime transport IMDG

Classification

IMDG-Code : - ADNR
 EMS UN Number IMDG
 Packing Group Proper
 shipping name

Air transport ICAO-TI and IATA-DGR

Classification

Class : - ICAO /
 IATA-DGR Subsidiary Risk Labels Packing Instructions
 Proper shipping Packing Group
 name UN
 Number

15. Regulatory information

Classification

Danger symbol and danger designation

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not required

Hazard-determining components of labelling

None : MAK value 0.0 mg/m³ ml/m³ (ppm)

R-phrases

43 May cause sensitisation by skin contact.
36/37/38 Irritating to eyes, respiratory system and skin.

S-phrases

2 Keep out of the reach of children.
9 Keep container in a well-ventilated place
16 Keep away from sources of ignition -No smoking.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .
28 After contact with skin, wash immediately with plenty of water and soap.
37/39 Wear suitable gloves and eye/face protection.

16. Other information

Processing instructions / technical data sheets

Please observe the label/directions for use!

Further information

This is a medical device classified under the requirements of EU and TGA .

Contact

Dr. Peter Lobo

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.