ivoclar vıvadenl:

Safety Data Sheet in accordance with HSNO

Printing date 05.12.2019

Version number 11

Revision: 05.12.2019

1 Identification of the substance or mixture and of the supplier

· Product identifier

· Trade name: ProBase Cold Monomer

• Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- \cdot Application of the substance / the mixture Denture base material
- · 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 Ltd 12 Omega St, Rosedale, Auckland New Zealand Tel: + 64 9 914 9999 / Fax: + 64 9 914 9990

• **Further information obtainable from:** Regulatory Affairs sds@ivoclarvivadent.com • **Emergency telephone number:** 0800 764 766 (National Poison Centre - 24 hours / 7 days)

2 Hazards identification

\cdot Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· 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: methyl methacrylate
1,4-butanediol dimethacrylate
Hazard statements
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

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

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

· Chemical characterisation: Mixtures

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

· Dangerous components:				
CAS: 80-62-6	methyl methacrylate	50-100%		
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335			
	1,4-butanediol dimethacrylate	2.5-10%		
EINECS: 218-218-1	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335			

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

4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- *Immediately 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.
- Do not induce vomiting; call for medical help immediately.
- 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: CO2, sand, extinguishing powder. Do not use water.
- 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: No special measures required.

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· 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.*

- 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). Ensure adequate ventilation.

• 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. Ensure good ventilation/exhaustion at the workplace. For use in dentistry only.
- **Information about fire and explosion protection:** 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.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions:
- Keep container tightly sealed.
- Store receptacle in a well ventilated area.
- Protect from heat and direct sunlight.
- \cdot Specific end use(s) No further relevant information available.

8 Exposure controls/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:

CAS: 80-62-6 methyl methacrylate

WES Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm skin

• Additional information: The lists valid during the making were used as basis.

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· Exposure controls

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· Personal protective equipment: • General protective and hygienic measures: Usual hygienic measures for dental practice and dental laboratories. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eves and skin. Do not inhale gases / fumes / aerosols. • Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. • Recommended filter device for short term use: Filter A1 Filter A2 Filter A3 · Protection of hands: Protective gloves After use of gloves apply skin-cleaning agents and skin cosmetics. • Material of gloves Butyl rubber, BR Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation 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. Not suitable are gloves made of the following materials: Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid Colour: Colourless · Odour: Pungent · Odour threshold: Not determined. Not determined. · pH-value: · Change in condition *Melting point/freezing point:* -48 °C Initial boiling point and boiling range: 101 °C

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Flash point:	10 °C
Ignition temperature:	430 °C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
Vapour pressure at 20 °C:	47 hPa
Density at 20 °C:	0.943 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water at 20 °C:	1.6 g/l
Partition coefficient: n-octanol/water:	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

Forms explosive gas mixture with air. Reacts with strong oxidising agents.

Exothermic polymerisation.

- · 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

· LD/LC50 values relevant for classification:

CAS: 80-62-6 methyl methacrylate

Oral LD50 7872 mg/kg (rat)

·Skin corrosion/irritation Irritant to skin and mucous membranes.

· Serious eye damage/irritation No irritating effect.

• Respiratory or skin sensitisation Sensitisation possible through skin contact.

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· Additional toxicological information: No further relevant information available.

<u>12 Ecological information</u>

· 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 product 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 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 packaging:

• Recommendation: Disposal must be made according to official regulations.

UN-Number ADR/RID/ADN, IMDG, IATA	UN1247
UN proper shipping name	
ADR/RID/ADN	1247 METHYL METHACRYLATE MONOMER, STABILIZED
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED
Transport hazard class(es) ADR/RID/ADN	
Class	3 (F1) Flammable liquids.

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Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group ADR/RID/ADN, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	339
EMS Number:	F- E , S - D
Transport in bulk according to Annex II and the IBC Code	of Marpol Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
The second se	Maximum net quantity per outer packaging: 500 ml
Transport category	2 D/E
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2 Manimum not quantity non-inner nachaoing, 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER,
	STABILIZED, 3, II

15 Regulatory information

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

·New Zealand Inventory of Chemicals				
All ingredients are listed.				
· HSNO Approval numbers				
CAS: 80-62-6 methyl methacrylate	HSR001195			
CAS: 2082-81-7 1,4-butanediol dimethacrylate	HSR003839			
• GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS)	(Contd. on page 8)			

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(Contd. of page 7) · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: methvl methacrvlate 1,4-butanediol dimethacrylate · Hazard statements Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. · Seveso category P5c FLAMMABLE LIQUIDS • Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t · National regulations: · Other regulations, limitations and prohibitive regulations The product is a medical device according to the Directive 93/42/EEC. · 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 H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. · 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 (Contd. on page 9) NZ

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Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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