

**Safety Data Sheet  
in accordance with HSNO**

Date of issue: 28.11.2024

Version number 2

Revision: 28.11.2024

**1 Identification of the substance or mixture and of the supplier**

- **Other means of identification**
- **Trade name: PrograMill Fluid**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Coolant/ Cutting solution
- **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@ivoclar.com
- **Emergency telephone number:** 0800 764 766 (National Poison Centre - 24 hours / 7 days)

**2 Hazards identification**

- **Classification of the substance or mixture**

Skin irritation Category 2	H315 Causes skin irritation.
Eye irritation Category 2	H319 Causes serious eye irritation.
Specific target organ toxicity - repeated exposure Category 2	H373 May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Oral.
Hazardous to the aquatic environment chronic Category 3	H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Alkanolamine
- **Hazard statements**  
Causes skin irritation.  
Causes serious eye irritation.  
May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Oral.

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Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

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

IF ON SKIN: Wash with plenty of water.

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

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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:**

	carboxylic acids, neutralized with alkanolamines Skin irritation Category 2, H315; Eye irritation Category 2, H319	10-25%
CAS: 102-71-6 EINECS: 203-049-8	Triethanolamine	2.5-10%
	Alkanolamine Specific target organ toxicity - repeated exposure Category 2, H373; Acute oral toxicity Category 4, H302; Skin irritation Category 2, H315; Eye irritation Category 2, H319	2.5-10%
CAS: 95-14-7 EINECS: 202-394-1	benzotriazole Hazardous to the aquatic environment chronic Category 2, H411; Acute oral toxicity Category 4, H302; Eye irritation Category 2, H319	<2.5%
CAS: 101-83-7 EINECS: 202-980-7	dicyclohexylamine Skin corrosion Category 1B, H314; Hazardous to the aquatic environment acute Category 1, H400; Hazardous to the aquatic environment chronic Category 1, H410; Acute oral toxicity Category 4, H302	<2.5%
	Poly Quaternär Ammoniumchlorid Hazardous to the aquatic environment acute Category 1, H400; Hazardous to the aquatic environment chronic Category 1, H410; Acute oral toxicity Category 4, H302; Acute inhalation toxicity Category 4, H332	<2.5%

· **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. Then consult a doctor.

· **After swallowing:** Rinse out mouth and then drink plenty of water.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.
- **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:**  
Inform respective authorities in case of seepage into water course or sewage system.  
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.  
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:**  
Do not store together with oxidising and acidic materials.
- **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/personal protection

- **Appropriate engineering controls** No further data; see section 7.

- **Ingredients with limit values that require monitoring at the workplace:**

<b>CAS: 102-71-6 Triethanolamine</b>
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<b>WES</b> Long-term value: 5 mg/m <sup>3</sup>
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- **Regulatory information** WES: Workplace Exposure Standards and Biological Exposure Indices
- **Additional information:** The lists valid during the making were used as basis.

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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 eyes and skin.

· **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.

· **Protection of hands:**



Protective gloves (EN 374)

After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

Nitrile rubber, NBR

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.

· **Eye protection:**



Tightly sealed goggles (EN 166)

### 9 Physical and chemical properties

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Colour:**

Yellow-brown

· **Odour:**

Weak, characteristic

· **Odour threshold:**

Not determined.

· **pH-value (50 g/l) at 20 °C:**

8.7 - 9.0 (DIN 51369 / ASTM D1287)

· **Change in condition**

· **Melting point/freezing point:**

Undetermined.

· **Initial boiling point and boiling range:**

> 100 °C

· **Flash point:**

144 °C (ISO 2592)

· **Flammability**

Not applicable.

· **Auto-ignition temperature:**

324 °C (DIN 51794 / ASTM E695)

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density at 20 °C:**

1.06 g/cm<sup>3</sup> (ISO 3104 / ASTM D445)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

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· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Not determined.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic at 40 °C:</b>	5.9 mm <sup>2</sup> /s (ISO 3104 / ASTM D445)
· <b>Other information</b>	No further relevant information available.
· <b>Particle characteristics</b>	Not applicable.

### 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** Reacts with strong acids and oxidising agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Specific symptoms in biological assay:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **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**  
May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure:  
Oral.
- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish

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- **Additional ecological information:**
- **General notes:**  
*Harmful to aquatic organisms*  
*Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water*  
*Do not allow product to reach ground water, water course or sewage system.*  
*Danger to drinking water if even small quantities leak into the ground.*
- **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**  
*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.*
- **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

### 14 Transport information

- |   |   |
|---|---|
| · <b>UN-Number</b>  |   |
| · <b>NZS/RID/ADN, ADN, IMDG, IATA</b>                                       | Void  |
| · <b>UN proper shipping name</b>  |   |
| · <b>NZS/RID/ADN, ADN, IMDG, IATA</b>                                       | Void  |
| · <b>Transport hazard class(es)</b>   |   |
| · <b>NZS/RID/ADN, ADN, IMDG, IATA</b>                                       |   |
| · <b>Class</b>  | Void  |
| · <b>Packing group</b>  |   |
| · <b>NZS/RID/ADN, IMDG, IATA</b>  | Void  |
| · <b>Environmental hazards:</b>   | Not applicable.   |
| · <b>Special precautions for user</b>                                       | Not applicable.   |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| · <b>Transport/Additional information:</b>                                  | <i>Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).</i> |
| · <b>UN "Model Regulation":</b>   | Void  |

### 15 Regulatory information

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

- **New Zealand Inventory of Chemicals**

CAS: 102-71-6	Triethanolamine
CAS: 95-14-7	benzotriazole

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CAS: 101-83-7	dicyclohexylamine
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· **HSNO Approval numbers**

CAS: 102-71-6	Triethanolamine		
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HSR002785

CAS: 101-83-7	dicyclohexylamine		
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HSR004042

· **GHS label elements**

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

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

Alkanolamine

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Oral.

Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

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

IF ON SKIN: Wash with plenty of water.

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

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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.

· **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**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **Contact:**

· **Abbreviations and acronyms:**

IMO: International Maritime Organization

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*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*

*Acute oral toxicity Category 4: Acute toxicity – Category 4*

*Skin corrosion Category 1B: Skin corrosion/irritation – Category 1B*

*Skin irritation Category 2: Skin corrosion/irritation – Category 2*

*Eye irritation Category 2: Serious eye damage/eye irritation – Category 2*

*Specific target organ toxicity - repeated exposure Category 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Hazardous to the aquatic environment acute Category 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Hazardous to the aquatic environment chronic Category 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

*Hazardous to the aquatic environment chronic Category 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

*Hazardous to the aquatic environment chronic Category 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

**\* Data compared to the previous version altered.**

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