

**Safety Data Sheet**  
in accordance with HSNO

Printing date 23.10.2024



Version number 2

Revision: 23.10.2024

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

- **Product identifier**
- **Trade name:** ***PrograMill Fluid for One***
- **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.  
Reproductive toxicity Category 1      H360 May damage fertility or the unborn child.
- **Label elements**
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**  
   
GHS07    GHS08
- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*disodium tetraborate*
- **Hazard statements**  
*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May damage fertility or the unborn child.*
- **Precautionary statements**  
*Do not breathe 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/hearing protection.*

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

*IF exposed or concerned: Get medical advice/attention.*

- **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: 56-81-5 EINECS: 200-289-5	glycerol	10-<25%
CAS: 10049-36-2 EINECS: 233-175-9	orthoboric acid, compound with 2,2',2''-nitrilotriethanol Skin irritation Category 2, H315; Eye irritation Category 2, H319	10-<25%
CAS: 85030-06-4 EINECS: 285-130-8	sebacic acid, compound with 2,2',2''-nitrilotriethanol (1:2) Skin irritation Category 2, H315; Eye irritation Category 2, H319	10-<25%
CAS: 82801-62-5 EINECS: 208-045-2	Decanedioic acid, amine salt Skin irritation Category 2, H315; Eye irritation Category 2, H319	10-<25%
CAS: 1330-43-4 EINECS: 215-540-4	disodium tetraborate Reproductive toxicity Category 1, H360	<2.5%

· **SVHC**

CAS: 1330-43-4 disodium tetraborate

- **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 wash with water and soap and rinse thoroughly.  
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

- **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**  
Formation of toxic gases is possible during heating or in case of fire.

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In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

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

### 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.

Prevent formation of aerosols.

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 acids.

· **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

· **Additional information about design of technical facilities:** No further data; see section 7.

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

**CAS: 56-81-5 glycerol**

WES	Long-term value: 10 mg/m <sup>3</sup> mist
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**CAS: 1330-43-4 disodium tetraborate**

WES	Long-term value: 1 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.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Usual hygienic measures for dental practice and dental laboratories.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Combination filter A-P2
- **Protection of hands:**



Protective gloves

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

- **Material of gloves**

Nitrile rubber, NBR

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.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- **General Information**

- **Appearance:**

- |   |   |
|---|---|
| · <b>Form:</b>                                    | Fluid   |
| · <b>Colour:</b>                                  | Colourless                                    |
| · <b>Odour:</b>                                   | Characteristic                                |
| · <b>Odour threshold:</b>                         | Not determined.                               |
| · <b>pH-value at 20 °C:</b>                       | 8.5   |
| · <b>Change in condition</b>                      |   |
| · <b>Melting point/freezing point:</b>            | Undetermined.                                 |
| · <b>Initial boiling point and boiling range:</b> | >100 °C                                       |
| · <b>Flash point:</b>                             | Undetermined.                                 |
| · <b>Flammability (solid, gas):</b>               | Not applicable.                               |
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Explosive properties:</b>                    | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| · <b>Lower:</b>                                   | Not determined.                               |
| · <b>Upper:</b>                                   | Not determined.                               |
| · <b>Vapour pressure at 20 °C:</b>                | <23 hPa                                       |
| · <b>Density at 20 °C:</b>                        | ~1.16 g/cm <sup>3</sup>                       |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapour density</b>                           | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with</b>         |   |
| · <b>water:</b>                                   | Fully miscible.                               |
| · <b>Partition coefficient: n-octanol/water:</b>  | Not determined.                               |
| · <b>Viscosity:</b>                               |   |
| · <b>Dynamic at 20 °C:</b>                        | 50 mPas                                       |

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|----------------------------|--|
| <b>· Kinematic:</b>        | Not determined.                            |
| <b>· Other information</b> | 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**  
Reacts with strong acids.  
Exothermic reaction.
- **Conditions to avoid**  
Protect from frost.  
Keep away from heat and direct sunlight.
- **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** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

**CAS: 1330-43-4 disodium tetraborate**

Oral	LD50	2400 (rat)
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- **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**  
May damage fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **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.
- **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.

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- **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.

### 14 Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>NZS/RID/ADN, ADN, IMDG, IATA</b></li> </ul>  | Void   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>NZS/RID/ADN, ADN, IMDG, IATA</b></li> </ul>                            | Void   |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>NZS/RID/ADN, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | Void   |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>NZS/RID/ADN, IMDG, IATA</b></li> </ul>   | Void   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>  | Not applicable.  |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>  | Not applicable.  |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>                                | Not applicable.  |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>   | Product is not classified as a dangerous good for transport (ADR, IMDG, IATA). |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | Void   |

### 15 Regulatory information

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

- **New Zealand Inventory of Chemicals**

CAS: 56-81-5	glycerol
CAS: 10049-36-2	orthoboric acid, compound with 2,2',2''-nitrilotriethanol
CAS: 82801-62-5	Decanedioic acid, amine salt
CAS: 1330-43-4	disodium tetraborate

- **HSNO Approval numbers**

CAS: 1330-43-4	disodium tetraborate	HSR002799
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- **GHS label elements**

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

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· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

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

*disodium tetraborate*

· **Hazard statements**

*Causes skin irritation.*

*Causes serious eye irritation.*

*May damage fertility or the unborn child.*

· **Precautionary statements**

*Do not breathe 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/hearing protection.*

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

*IF exposed or concerned: Get medical advice/attention.*

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 1330-43-4	<i>disodium tetraborate</i>
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· **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**

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H360 May damage fertility or the unborn child.*

· **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)*

*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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

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

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

*Reproductive toxicity Category 1: Reproductive toxicity – Category 1*