

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: 220-1000 InovaPrint wash

# HPdent

Revision date:

Version: /en

Print date: 16.05.2023

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

Commercial Product Name                      **220-1000 InovaPrint wash**

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses                      Auxiliary for dental technology

### **1.3 Details of the supplier of the safety data sheet**

Company designation

HPdent GmbH  
Erwin-Dietrich-Straße 5  
78244 Gottmadingen  
Telephone: +49 7731 38 11 044  
FAX: +49 7731 31 97 123  
Email: info@hpdent.com

Australian Distributor:

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 **ALPHABOND**  
Ph: (02) 9417 6660 www.alphabond.com.au

**Australian Emergency Contact Numbers:**

Alphabond Dental (Business hours)  
Alphabond Dental (After hours)  
Emergency Call Service (Australia)

Phone: **02 9417 6660**  
Phone: **0412 121 788**  
Phone: **000**

### **1.4 Emergency telephone number**

Emergency telephone number                      +49 7731 38 11 044

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008      Eye Irrit. 2 H319: Causes serious eye irritation.

### **2.2 Label elements**

Hazard pictogram



GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

H-statement(s)

H319: Causes serious eye irritation.

P-statement(s)

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

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**2.3 Other hazards**

Hazard precautions

No data available

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous ingredients**

| Ingredient                                                         | CAS No.                                                           | Classification (EC) 1272/2008 | Concentration |
|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------|---------------|
| 2-(2-butoxyethoxy)ethanol;<br>diethylene glycol monobutyl<br>ether | CAS No.: 112-34-5<br>EC-No.: 203-961-6<br>Index-No.: 603-096-00-8 | Eye Irrit. 2; H319            | > 90.0 %      |

Chemical characterization

Mixtures

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice

Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

If inhaled

Provide fresh air.

In case of skin contact

Rinse skin with water/shower.

In case of eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

If swallowed

IF SWALLOWED: Immediately call a doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms

Irritation to eyes, Respiratory complaints, Nausea, dizziness.

**4.3 Indication of any immediate medical attention and special treatment needed**

Immediate medical attention

No information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media

Dry extinguishing powder

Extinguishing media which must not be used for safety reasons

Full water jet

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions

Wear personal protection equipment (refer to section 8).  
Remove all sources of ignition.  
Provide for sufficient ventilation, particularly in closed rooms.  
Avoid eye contact.

### **6.2 Environmental precautions**

Environmental precautions

Do not allow to enter into surface water or drains.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up

Collect in closed and suitable containers for disposal.

### **6.4 Reference to other sections**

Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling

Do not breathe vapour/aerosol.  
Avoid contact with eyes and skin.

Precautions

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

Advice on protection against fire and explosion

Behälter nach Gebrauch sofort mit Deckel verschließen.  
Für gute Raumbelüftung sorgen.

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage space and container requirements

Keep only in the original container in a cool, well-ventilated place.

Recommended storage temperature

at room temperature

### **7.3 Specific end use(s)**

Specific use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

Germany

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| Value / ppm | Value / mg/m3 | Ceiling Limit Value | Remarks                                                     | Issuing date | Source   |
|-------------|---------------|---------------------|-------------------------------------------------------------|--------------|----------|
| 10          | 67            | 1,5(1)              | European Union.<br>*1)<br>*2)<br>Sum of steam and aerosols. | 07/13        | TRGS 900 |

\*1): Senate Commission on the Testing of Health Hazardous Materials of the German Research Community.

\*2): A risk of damage to the fruit need not be feared if the workplace limit value and the biological limit value (BGW) are observed.

| Europe                          |                               |                                   |                                 |              |                       |
|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------------|-----------------------|
| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Issuing date | Source                |
| 67,5                            | 10                            | 101,2                             | 15                              | 2006/15      | DIRECTIVE 2009/161/EU |

| Denmark     |               |      |                                                                      |
|-------------|---------------|------|----------------------------------------------------------------------|
| Value / ppm | Value / mg/m3 | Note | Source                                                               |
| 10          | 68            | E    | Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ... |

| Norway      |               |                                                                          |
|-------------|---------------|--------------------------------------------------------------------------|
| Value / ppm | Value / mg/m3 | Source                                                                   |
| 10          | 68            | Veiledning om administrative normer for forurensning i arbeidsatmosfæ... |

| Sweden                        |                                 |                                 |                                   |              |                                                                  |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------------|------------------------------------------------------------------|
| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Issuing date | Source                                                           |
| 10                            | 68                              | 15                              | 101                               | 2015         | HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18 |

| Finland                       |                                 |              |                                                       |
|-------------------------------|---------------------------------|--------------|-------------------------------------------------------|
| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Issuing date | Source                                                |
| 10                            | 68                              | 2007         | HTTP-arvot 2012:5 HAITALISIKSI TUNNETUT PITOISU- UDET |

| Poland                          |                                   |                                                                            |
|---------------------------------|-----------------------------------|----------------------------------------------------------------------------|
| Long-term exposure value/ mg/m3 | Short-term exposure value / mg/m3 | Source                                                                     |
| 67                              | 100                               | ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 cz- erw... |

| Austria |  |
|---------|--|
|---------|--|

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| Area of validity | Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Duration | Frequency per shift | Source                                    |
|------------------|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|----------|---------------------|-------------------------------------------|
| MAK              | 10                            | 67,5                            | 15                              | 101,2                             | 15 (Miw) | 4x                  | Stoffliste (MAK-Werte und TRK-Werte 2012) |

**Switzerland**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Notations | Critical toxicity  | Remarks                    | Source                |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|-----------|--------------------|----------------------------|-----------------------|
| 10                            | 67                              | 15                              | 101                               | SSC       | blood liver kidney | *1)<br>(see 1.9.2, 1.10.3) | SUVA Switzerland 2017 |

\*1): Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen.

**Spain**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Note   | Source                                                       |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------|--------------------------------------------------------------|
| 10                            | 67,5                            | 15                              | 101,2                             | VLI, r | Límites de exposición profesional para Agentes Químicos 2014 |

**France**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | TMP n° | FT n° | Issuing date | Source                                                                   |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------|-------|--------------|--------------------------------------------------------------------------|
| 10                            | 67,5                            | 15                              | 101,2                             | 84     | 254   | 2007         | Valeurs limites d'exposition professionnelle aux agents chimiques en ... |

**Belgium**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Source                                                                 |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|------------------------------------------------------------------------|
| 10                            | 67,5                            | 15                              | 101,2                             | Liste de valeurs limites d'expositions professionnelles aux agents ... |

**Netherlands**

| Long-term exposure value/ mg/m3 | Short-term exposure value / mg/m3 | Skin resorption / sensibilisation | Source                                 |
|---------------------------------|-----------------------------------|-----------------------------------|----------------------------------------|
| 50                              | 100                               | H                                 | Lijst met wettelijke grenswaarden 2011 |

**Great Britain**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Source |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------|
|                               |                                 |                                 |                                   |        |

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|    |      |    |       |                                            |
|----|------|----|-------|--------------------------------------------|
| 10 | 67.5 | 15 | 101.2 | EH40/2005 Workplace exposure limits (2011) |
|----|------|----|-------|--------------------------------------------|

**Czech Republic**

| Long-term exposure value/ mg/m3 | Short-term exposure value / mg/m3 | Note | Source                                                                  |
|---------------------------------|-----------------------------------|------|-------------------------------------------------------------------------|
| 70                              | 100                               | I    | NARÍZENÍ VLÁDY ze dne 12.prosince 2007 kterým se stanoví podmínky oc... |

**Ireland**

| Long-term exposure value/ ppm | Long-term exposure value/ mg/m3 | Short-term exposure value / ppm | Short-term exposure value / mg/m3 | Remarks | Source                                                            |
|-------------------------------|---------------------------------|---------------------------------|-----------------------------------|---------|-------------------------------------------------------------------|
| 10                            | 67.5                            | 15                              | 101.2                             | IOELV   | Code of Practice for the Safety Health and Welfare at Work (2011) |

**Estonia**

| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Source                                                                  |
|---------------------------------|-------------------------------|-------------------------------------------------------------------------|
| 67,5                            | 10                            | Töökeskonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ... |

**Slovenia**

| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Ceiling Limit Value | Remarks | Source |
|---------------------------------|-------------------------------|---------------------|---------|--------|
| 67,5                            | 10                            | 1,5                 | EU      | 77     |

**Luxembourg**

| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Source                                                                   |
|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------------------------------------------------------------------------|
| 67,5                            | 10                            | 101,2                             | 15                              | Règlement grand-ducal du 31 octobre 2008 modifiant le règlement grand... |

**Lithuania**

| Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Source |
|-----------------------------------|---------------------------------|---------------------------------|-------------------------------|--------|
| 100                               | 15                              | 200                             | 30                            | 36     |

**Bulgaria**

| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Source |
|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------|
| 67,5                            | 10                            | 101,2                             | 15                              | 81     |

**Latvia**

| Long-term exposure value/ mg/m3 | Long-term exposure value/ ppm | Short-term exposure value / mg/m3 | Short-term exposure value / ppm | Source |
|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------|
| 67,5                            | 10                            | 101,2                             | 15                              | 78     |

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Romania

| Long-term exposure value/ mg/m3 | Short-term exposure value / mg/m3 | Source |
|---------------------------------|-----------------------------------|--------|
| 150                             | 250                               | 79     |

## 8.2 Exposure controls

|                                         |                                                                        |
|-----------------------------------------|------------------------------------------------------------------------|
| Respiratory protection                  | No hazardous reaction when handled and stored according to provisions. |
| Hand protection                         | Wear suitable gloves.                                                  |
| Suitable material                       | NBR (Nitrile rubber)                                                   |
| Eye protection                          | Wear eye glasses with side protection according to EN 166.             |
| Skin and body protection                | Wear suitable working clothes.                                         |
| General protective and hygiene measures | GHS09                                                                  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                   |                    |
|---------------------------------------------------|--------------------|
| Physical state                                    | liquid             |
| Colour                                            | colourless         |
| Odour                                             | weak odour         |
| Odour threshold                                   | not determined     |
| pH                                                | not determined     |
| Melting point [°C] / Freezing point [°C]          | -67 °C             |
| Initial boiling point [°C] and boiling range [°C] | 224 - 234 °C       |
| Flash point [°C]                                  | 109 °C (c.c.)      |
| Evaporation rate [kg/(s*m²)]                      | not determined     |
| Flammability (solid, gas)                         | Not applicable     |
| Explosion limits [Vol-%]                          |                    |
| Lower limit                                       | 0,7 Vol.-%         |
| Upper limit                                       | 5,3 Vol.-%         |
| Vapour pressure [kPa]                             | <0,1 hPa bei 20 °C |
| Vapour density                                    | not determined     |
| Density [g/cm³]                                   | 0,95 g/cm³         |
| Relative density                                  | not determined     |
| Water solubility [g/l]                            | 955 g/l bei 20 °C  |

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Partition coefficient n-octanol /water  
(log P O/W) 0,56 (25 °C) (exp.)(Lit.)

Autoignition temperature [°C] 225 °C - (DIN 51794)

Risk of explosion. Product is not explosive.

Oxidising properties No

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Reactivity No hazardous reaction when handled and stored according to provisions.

### **10.2 Chemical stability**

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### **10.4 Conditions to avoid**

Conditions to avoid Heat

### **10.5 Incompatible materials**

Materials to avoid Oxidizing agent  
Aluminium

### **10.6 Hazardous decomposition products**

Hazardous decomposition products Peroxide

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

Oral toxicity [mg/kg] Based on available data, the classification criteria are not met.

Test species Rat

Exposure duration LD50

Dermal toxicity [mg/kg] Based on available data, the classification criteria are not met.

Test species Rabbit

Duration LD50

Irritant effect on skin Based on available data, the classification criteria are not met.

Irritant effect on eyes Irritant.

Irritant effect on the respiratory tract Based on available data, the classification criteria are not met.

Sensitization Based on available data, the classification criteria are not met.

Carcinogenic effects Based on available data, the classification criteria are not met.



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|                                                            |                                                                   |
|------------------------------------------------------------|-------------------------------------------------------------------|
| Mutagenicity                                               | Based on available data, the classification criteria are not met. |
| Reproduction toxicity                                      | Based on available data, the classification criteria are not met. |
| Caustic effect                                             | Based on available data, the classification criteria are not met. |
| Dermal absorption data                                     | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (single exposure) [mg/kg]   | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (repeated exposure) [mg/kg] | Based on available data, the classification criteria are not met. |
| Aspiration hazard                                          |                                                                   |
| EU (g / l)                                                 | Based on available data, the classification criteria are not met. |

**SECTION 12: Ecological information****12.2 Persistence and degradability**

|                  |                |
|------------------|----------------|
| Biodegradability | Biodegradable. |
|------------------|----------------|

**12.3 Bioaccumulative potential**

|                 |                                     |
|-----------------|-------------------------------------|
| Bioaccumulation | No data available No data available |
|-----------------|-------------------------------------|

**12.4 Mobility in soil**

|                                 |                   |
|---------------------------------|-------------------|
| Distribution in the environment | No data available |
|---------------------------------|-------------------|

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Disposal considerations | Dispose of waste according to applicable legislation. |
|-------------------------|-------------------------------------------------------|

|            |                                                                                                                                             |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Code | The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 14: Transport information**

|                                 | Land transport ADR/RID                                     | Marine transport IMDG                                      | Air transport ICAO/IATA                                    |
|---------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| 14.1 UN-No                      | Not applicable                                             | Not applicable                                             | Not applicable                                             |
| 14.3 Transport hazard class(es) | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |

**14.6 Special precautions for user**

|             |                                            |
|-------------|--------------------------------------------|
| Precautions | No further relevant information available. |
|-------------|--------------------------------------------|

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## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II Not applicable  
of MARPOL and the IBC Code

## SECTION 15: Regulatory information

### 15.2 Chemical safety assessment

Safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

Abbreviations and acronyms

H319: Verursacht schwere Augenreizung.

Relevant H-phrases

H319: Causes serious eye irritation.

Wording of the hazard classes

Eye Irrit.: Serious eye irritation

Die Angaben in diesem Sicherheitsdatenblatt beschreiben die Sicherheitsanforderungen unseres Produktes und stellen keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

Modifications of the previous version are denoted with an asterisk (\*).