

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

Commercial Product Name: 220-1000/220-5000 InovaPrint wash



Revision date:

Version: /en

Print date: 20.04.2020

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

### **1.1 Product identifier**

Commercial Product Name                      **220-1000/220-5000 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

### **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

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	CAS No.: 112-34-5 EC-No.: 203-961-6 Index-No.: 603-096-00-8	Eye Irrit. 2; H319	> 60% - < 100%

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        Close container immediately after use. Ensure good room ventilation.

#### **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

Germany

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Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
10	67	1,5(l)	European Union. *1) *2) 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 GRÄNSVÅRDEN 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 HAITAL-LISIKSI 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) (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)
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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 kterym 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 piinormid 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/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	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*m <sup>2</sup> )]	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/cm <sup>3</sup> ]	0,95 g/cm <sup>3</sup>
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: Causes serious eye irritation.

Relevant H-phrases H319: Causes serious eye irritation.

Wording of the hazard classes Eye Irrit.: Serious eye irritation

The information in this safety data sheet describes the safety requirements of our product and does not describe product properties nor does the information given establish a contractual legal relationship.

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