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 Hauptstr. 99 / Geb. 66 78244 Gottmadingen Telefon: +49 7731 16958-0 Email: kontakt@hp-dent.com

1.4 Emergency telephone number

Emergency telephone number	International: +49 70024112112 (HPD) USA /CAN: +11 49 70024112112 (HPD)

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.

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

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

Value / ppm	Value / mg/m3	Ceiling Limit Value	Remarks	Issuing date	Source
10	67	1,5(I)	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 GRÄNSVÄR-DEN OCH ÅT-GÄRDER MOT LUFTFÖRORENIN-GAR 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

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 professionelle 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 professionnelle 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**

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 keterym se stanovi podmýnky 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	Töökeskkonna 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

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

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.

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.

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

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

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 nore does the information given establish a contractual legal relationship.

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