SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2014-06-27
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Version number : 1.0

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

MSDS : 29669
Supplier : DISCUS DENTAL, LLC.

DISCUS DENTAL, LLC.	DISCUS DENTAL EUROPE
(COMPANY)	(IMPORTER)
1700 A South Baker Avenue	Van Nelle Ontwerpfabriek-Hal 1
91761 Ontario	Van Nelleweg 1
California	3044 BC Rotterdam
United States of America	The Netherlands
TEL:(800) 817-3636	TEL:+31(0)10-7503760

Tradename : BREATHRX MOUTH RINSE

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

General description : MOUTH RINSE
Use : Various
Uses advised against : Data not available.

1.3. Details of the supplier of the safety data sheet

Supplier safety data sheet : Philips Electronics Nederland B.V., P.O. Box 218, 5600 MD Eindhoven, Tel. +31 (0)40 2747588
Responsible department : dangerous.goods@philips.com

1.4. Emergency telephone number

Emergency telephone number : +31 (0)497-598315

2. Hazards identification

2.1. Classification of the substance or mixture

GHS: (EC) No 1272/2008

Hazardous to the aquatic environment - chronic	Category 3	H412

EC: (EC) No 67/548 or 1999/45

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

GHS: (EC) No 1272/2008

Signal word : none

Hazard statements

H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P501	Dispose of contents/container to a hazardous or special waste collection point.

Hazardous component(s) : not applicable

Remarks on GHS-labelling none

EC: (EC) No 67/548 or 1999/45

Hazard pictogram(s) : none

R-phrases

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Hazardous component(s) : not applicable

Remarks on EC-labelling none

2.3. Other hazards

Data not available.

3. Composition/information on ingredients

Component	CAS-no. EC-no.	Index No. Registration no.	Percentage(%)	GHS-Label EC-Label
D-GLUCITOL	50-70-4 200-061-5		≥20.0 - <30.0	
1,2-PROPANEDIOL	57-55-6 200-338-0	 01-2119456809-23	≥10.0 - <20.0	
ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER	9003-11-6 611-024-1		≥1.0 - <10.0	H412 Aquatic chronic 3 R: 52/53
XYLITOL	87-99-0 201-788-0	 01-2119985700-33	≥1.0 - <10.0	
CASTOR OIL, HYDROGENATED, ETHOXYLATED	61788-85-0 500-147-5		<10.0	
POLYETHYLENE OXIDE	25322-68-3 500-038-2	 01-2119958801-32	<5.0	
ZINC GLUCONATE	4468-02-4 224-736-9		≥0.1 - <1.0	GHS09 H400 Aquatic acute 1 H410 Aquatic chronic 1 N;R: 50/53
CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	6004-24-6 204-593-9		≥0.01 - <0.1	GHS06 GHS09 H301 Acute tox. 3 H315 Skin irrit. 2 H319 Eye irrit. 2 H330 Acute tox. 2 H335 STOT SE 3 H400 Aquatic acute 1 H410 Aquatic chronic 1 T+,N;R: 25 26 36/37/38 50/53
ADDITIVES				
WATER	7732-18-5 231-791-2		≥40.0 - <60.0	

For the full text of the H-sentences, hazard statements and R-sentences mentioned in this section, see section 16.

4. First aid measures

4.1. Description of first aid measures

Skin : Remove residue substance as soon as possible from the skin (f.i. rinse with plenty of water).

Ingestion : If the victim is conscious let him rinse the mouth with water. Do NOT let him drink. In case of general disorders call for a

doctor.

Inhalation : Bring the victim into the fresh air as soon as possible, let rest and if necessary call for a doctor.

Eyes : Rinse for a long time with plenty of water. In case of eye-sight disturbances consult a doctor.

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

Skin	local	:	The substance is prickling: redness.
		:	Degreasing: in case of sustained contact a rough, dry skin, eczema.
	general	:	Probably no absorbtion worth mentioning.
Ingestion	local	:	The substance is prickling: sore throat.
	general	:	The substance may be absorbed after ingestion.
Inhalation	local	:	The substance is with atomising prickling: sore throat.
	general	:	The substance may be absorbed after inhalation.
Eyes	local	:	The substance is prickling: redness.
Remarks symptoms		:	The substance has an effect on: the kidneys, the nervous system, the intestines.

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

None

5. Firefighting measures

5.1. Extinguishing media

Suitable fire-extinguisher

carbon dioxide, extinguishing powder, water spray, alcohol resistant foam

Unsuitable fire-extinguisher

not traceable

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in fire : carbon monoxide, zinc oxide, nitrous oxides, hydrochloric acid

5.3. Advice for firefighters

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Precautions

Use protective equipment. See section 8.
Read label before use.

Emergency procedure

Is not to be expected.

6.2. Environmental precautions

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

6.3. Methods and material for containment and cleaning up

Spillage procedure

Absorb the liquid in appropriate absorbent (e.g. Powersorb, dry sand, diatomite, vermiculite etc.), shovel the mixture into plastic bags and remove to the central depot for hazardous waste.

6.4. Reference to other sections

See section 8 for appropriate personal protection.
See section 13 for additional information on waste treatment.

7. Handling and storage

7.1. Precautions for safe handling

Observe label precautions.
Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment. Wash hands after leaving the work area.

Local exhausting : Under normal circumstances not applicable.

Storage code (on behalf of PGS 15) : none

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements and S-phrases in section 2.2.
Store product in a closed packaging, cool, dry, in a well ventilated area, away from ignition sources or heatsources.

7.3. Specific end use(s)

Data not available.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

applicable to: The Netherlands (20 °C; 1013 mbar)

No TWA has been laid down.	D-GLUCITOL
TWA(8 hours): 50 mg/m3	1,2-PROPANEDIOL(proposal Health Council)
No TWA has been laid down.	ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER
No TWA has been laid down.	XYLITOL
No TWA has been laid down.	CASTOR OIL, HYDROGENATED, ETHOXYLATED
No TWA has been laid down.	POLYETHYLENE OXIDE
No TWA has been laid down.	ZINC GLUCONATE
No TWA has been laid down.	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE
No TWA has been laid down.	ADDITIVES
No TWA has been laid down.	WATER

C=Ceiling; S=Skin

Remarks exposure limits :
none

DNEL (Derived No Effect Level)
Data not available.

PNEC (Predicted No Effect Concentration)
Data not available.

8.2. Exposure controls

Advised personal protection :

Hands	:	butyl rubber gloves
Breakthrough time	:	For information: consult the supplier of the gloves.
Eyes	:	safety goggles
Inhalation	:	none (when sufficient exhausting)
Skin	:	protective clothing (such as: apron, coverall, boots)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Colour	: blue
Odour	: specific
Odour threshold (20°C; 1013 mbar)	: not traceable
pH	: ≥5 - ≤9
Melting point/range	: not traceable
Boiling point/range	: ≥100 °C (1013 mbar)
Flash point/range	: not traceable
Vapor rate/range	: not traceable
Flammability (solid, gas)	: data not available
Explosive limits	: not traceable
Vapour pressure	: ≤2.3 kPa (20 °C)

Relative density	: ≥1.0 (water=1) (20 °C)				
Solubility in water	: complete				
Log Pow	: -2.2	D-GLUCITOL			
	-1.4	1,2-PROPANEDIOL	**Source**	:	IUCLID
	-2.56	XYLITOL	**Source**	:	Easi View
	-0.76	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Source**	:	Sigma-Aldrich
	-7.41	ZINC GLUCONATE	**Source**	:	Easi View
	1.71	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Source**	:	Sigma-Aldrich
Autoignition temperature	: not traceable				
Decomposition temperature	: not traceable				
Viscosity	: not traceable				
Dust explosions possible in air	: not applicable				
Oxidising properties	: no				

9.2. Other information

Solubility in fat	:	not traceable
Electrostatic chargement	:	not traceable

10. Stability and reactivity

10.1. Reactivity

See section 10.2 - 10.6.

10.2. Chemical stability

The substance or mixture is stable under normal conditions. See also section 10.4.

10.3. Possibility of hazardous reactions

Reactions with water	:	no
Other hazardous conditions	:	Data not available.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Hazardous reactions with	:	oxidizing substances, acids, alkaline solutions, reducing substances, acid anhydrides, halogen compounds, halogens, inflammable substances, metal salt, metals

10.6. Hazardous decomposition products

Hazardous decomposition products at heating	:	none

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity				
LD-50: 15.9 g/kg (ORL-RAT)	D-GLUCITOL	**Source**	:	Easi View
LD-50: 20 g/kg (ORL-RAT)	1,2-PROPANEDIOL	**Source**	:	IUCLID
LD-50: >2.0 g/kg (ORL-RAT)	ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER	**Source**	:	Supplier
LD-50: 16.5 g/kg (ORL-RAT)	XYLITOL	**Source**	:	Easi View
LD-50: >20 g/kg (ORL-RAT)	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Source**	:	Sigma-Aldrich
LD-50: >2.0 g/kg (ORL-RAT)	POLYETHYLENE OXIDE	**Method**	:	OECD 401
		Source	:	Supplier
LD-50: >5 g/kg (ORL-RAT)	ZINC GLUCONATE	**Source**	:	Alfa Aesar
LD-50: 200 mg/kg (ORL-RAT)	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Source**	:	ChemDat (Merck)
Acute dermal toxicity				
LD-50: 20.8 g/kg (SKN-RBT)	1,2-PROPANEDIOL	**Source**	:	IUCLID
LD-50: >2.0 g/kg (SKN-RBT)	POLYETHYLENE OXIDE	**Source**	:	ChemDat (Merck)
Acute inhalation toxicity				
LC-50: >2.06 mg/l/4H (IHL-RAT)	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Source**	:	Sigma-Aldrich
LC-50: 0.09 mg/l/4H (IHL-RAT)	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Source**	:	ChemDat (Merck)

Ames test

negative	1,2-PROPANEDIOL	**Source**	: ChemDat (Merck)

Skin corrosion/irritation
The substance or mixture is not classified for skin corrosion/-irritation.

Serious eye damage/irritation
The substance or mixture is not classified for serious eye damage/irritation.

Respiratory or skin sensitisation
The substance or mixture is not classified for respiratory or skin sensitisation.

Germ cell mutagenicity
The substance or mixture is not classified for germ cell mutagenicity.

Carcinogenicity
The substance or mixture is not classified for carcinogenicity.

Reproductive toxicity
The substance or mixture is not classified for reproductive toxicity.

Specific target organ toxicity-single exposure
The substance or mixture is not classified for specific target organ toxicity-single exposure.

Specific target organ toxicity-repeated exposure
The substance or mixture is not classified for specific target organ toxicity-repeated exposure.

Aspiration hazard
The substance or mixture is not classified for aspiration hazard.

Symptoms

Skin	local	:	The substance is prickling: redness.
		:	Degreasing: in case of sustained contact a rough, dry skin, eczema.
	general	:	Probably no absorbtion worth mentioning.
Ingestion	local	:	The substance is prickling: sore throat.
	general	:	The substance may be absorbed after ingestion.
Inhalation	local	:	The substance is with atomising prickling: sore throat.
	general	:	The substance may be absorbed after inhalation.
Eyes	local	:	The substance is prickling: redness.
Remarks symptoms		:	The substance has an effect on: the kidneys, the nervous system, the intestines.

12. Ecological information

12.1. Toxicity

Ecotoxicity

LC-50: 23800 mg/l/96H (Fish)	1,2-PROPANEDIOL	**Method**	: OECD 203
		Source	: IUCLID
EC-50: 34400 mg/l/48H (Daphnia)	1,2-PROPANEDIOL	**Source**	: IUCLID
IC-50: 19000 mg/l/96H (Algae)	1,2-PROPANEDIOL	**Source**	: ChemDat (Merck)
EC-50: >100 mg/l/48H (Daphnia)	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Method**	: OECD 202
		Source	: Sigma-Aldrich
IC-50: >100 mg/l/72H (Algae)	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Method**	: OECD 201
		Source	: Sigma-Aldrich
LC-50: >100 mg/l/96H (Fish)	POLYETHYLENE OXIDE	**Method**	: OECD 203
		Source	: Supplier
EC-50: >100 mg/l/48H (Daphnia)	POLYETHYLENE OXIDE	**Method**	: OECD 202
		Source	: Supplier
LC-50: 0.01 mg/l/96H (Fish)	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Source**	: Sigma-Aldrich

12.2. Persistence and degradability

Biological oxygen demand (5)	: 1.17 g/g	1,2-PROPANEDIOL	**Source**	: IUCLID
Chemical oxygen demand	: 2.60 g/g	1,2-PROPANEDIOL	**Source**	: IUCLID
Biological(5)/chemical oxygen demand ratio	: 0.45	1,2-PROPANEDIOL		
Degradability	: readily	1,2-PROPANEDIOL	**Source**	: ChemDat (Merck)
	readily	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Method**	: OECD 301F
			Source	: Sigma-Aldrich
	readily	POLYETHYLENE OXIDE	**Source**	: ChemDat (Merck)
	not readily	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Method**	: OECD 301D
			Source	: ChemDat (Merck)

12.3. Bioaccumulative potential

Biochemical factor	: <1.0	1,2-PROPANEDIOL	**Source**	:	ChemDat (Merck)
Log Po/w	: -2.2	D-GLUCITOL			
	-1.4	1,2-PROPANEDIOL	**Source**	:	IUCLID
	-2.56	XYLITOL	**Source**	:	Easi View
	-0.76	CASTOR OIL, HYDROGENATED, ETHOXYLATED	**Source**	:	Sigma-Aldrich
	-7.41	ZINC GLUCONATE	**Source**	:	Easi View
	1.71	CETYLPYRIDINIUM CHLORIDE MONOHYDRATE	**Source**	:	Sigma-Aldrich

12.4. Mobility in soil

Henry Constant	: 7.26E-13 atm m3/mol	D-GLUCITOL	**Source**	:	Easi View
	1.18E-8 atm m3/mol	1,2-PROPANEDIOL	**Source**	:	ChemDat (Merck)
	6.06E-7 atm m3/mol	ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER	**Source**	:	Easi View
	1.5E-11 atm m3/mol	XYLITOL	**Source**	:	Easi View
	1.82E-29 atm m3/mol	ZINC GLUCONATE	**Source**	:	Easi View

12.5. Results of PBT and vPvB assessment

Data not available.

12.6. Other adverse effects

Remarks on ecotoxicity : none

13. Disposal considerations

13.1. Waste treatment methods

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

14. Transport information

14.1. UN number

Not subject to Transport-regulation Dangerous Substances

14.2. UN proper shipping name

Not subject to Transport-regulation Dangerous Substances

14.3. Transport hazard class(es)

Not subject to Transport-regulation Dangerous Substances

14.4. Packing group

Not subject to Transport-regulation Dangerous Substances

14.5. Environmental hazards

Marine pollutant : no

14.6. Special precautions for user

Not subject to Transport-regulation Dangerous Substances

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Data not available.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Data not available.

15.2. Chemical safety assessment

- Data not available.

16. Other information

Remarks on MSDS : none

Overview relevant H-sentences from all components in section 3

H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Overview relevant hazard statements from all components in section 3

N	DANGEROUS FOR THE ENVIRONMENT
T+	VERY TOXIC

Overview relevant R-sentences from all components in section 3

25	Toxic if swallowed.
26	Very toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Training advice

Provide adequate information, instruction and training for operators.

A key or legend to abbreviations and acronyms used in the safety data sheet

REACH	Registration, Evaluation and Authorisation of CHemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
CAS	Chemical Abstracts Service
TGG = TWA	Time Weighted Average
LEL	Lower Explosive Limit
UEL	Upper Explosive Limit
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID	Règlement concernant le transport international ferroviaire des marchandises dangereuses
UN	United Nations
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
EmS	Emergency Schedule

* Point to alterations with regard to the previous version.
The information provided in this Material Safety Data Sheet is correct to the best of the knowledge, information and belief of Philips Electronics Nederland B.V. at the date of its printing.