

# SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

**Date last verification** : 2017-05-29  
**Revision date** : 2017-05-29  
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**Version number** : 5.0

Last modifications in sections : 2 - 3

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

### 1.1. Product identifier

**SDS** : 29641  
**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** : PHILIPS ZOOM! DAY WHITE 6% WITH SODIUM FLUORIDE (POST HULA)

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

**General description** : DENTAL WHITENING GEL  
**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., Philips Environment & Safety, High Tech Campus 37, 5656 AE Eindhoven, Tel. +31 (0)40 27 41 645  
**Responsible department** : dangerous.goods@philips.com

### 1.4. Emergency telephone number

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

## \* SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

(EC) No 1272/2008

|  |            |      |
|--|------------|------|
| Serious eye irritation                         | Category 2 | H319 |
| Hazardous to the aquatic environment - chronic | Category 3 | H412 |

### 2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



**Signal word** : Warning

**Hazard statements**

|      |  |
|------|--|
| H319 | Causes serious eye irritation.                     |
| H412 | Harmful to aquatic life with long lasting effects. |

EUH208 May produce an allergic reaction.

#### Precautionary statements

P264 Wash hands/skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280.3 Wear 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.  
P501 Dispose of contents/container to a hazardous or special waste collection point.

**Hazardous component(s)** EUGENOL

**Remarks on labelling** none

### 2.3. Other hazards

If applicable: see section 6.1 and section 7.1.

## \* SECTION 3: Composition/information on ingredients

| Component                                | CAS-no.<br>EC-no.      | Index No.<br>Registration no.        | Percentage(%) | Label  |
|--|------------------------|--------------------------------------|---------------|--|
| ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER | 9003-11-6<br>611-024-1 |                                      | ≥25.0 - <30.0 | H412 Aquatic chronic 3   |
| GLYCEROL                                 | 56-81-5<br>200-289-5   | 01-2119471987-18                     | ≥10.0 - <20.0 |  |
| 1,2-PROPANEDIOL                          | 57-55-6<br>200-338-0   | 01-2119456809-23                     | ≥5.0 - <10.0  |  |
| HYDROGEN PEROXIDE                        | 7722-84-1<br>231-765-0 | 008-003-00-9<br>01-2119485845-22     | ≥5.0 - <8.0   | GHS03<br>GHS05<br>GHS07<br>H271 Ox. liq. 1<br>H302 Acute tox. 4<br>H314 Skin corr. 1A<br>H332 Acute tox. 4   |
| POTASSIUM NITRAT                         | 7757-79-1<br>231-818-8 | 01-2119488224-35<br>01-2120104950-66 | ≥1.0 - <5.0   | GHS03<br>H271 Ox. sol. 1   |
| EUGENOL                                  | 97-53-0<br>202-589-1   | 01-2119971802-33                     | ≥0.1 - <0.5   | GHS07<br>H302 Acute tox. 4<br>H315 Skin irrit. 2<br>H317 Skin sens. 1<br>H319 Eye irrit. 2<br>H335 STOT SE 3 |
| SODIUM FLUORIDE                          | 7681-49-4<br>231-667-8 | 009-004-00-7<br>01-2119539420-47     | ≥0.1 - <0.5   | GHS06<br>H301 Acute tox. 3<br>H315 Skin irrit. 2<br>H319 Eye irrit. 2<br>EUH032                              |
| WATER                                    | 7732-18-5<br>231-791-2 |                                      |               |  |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Skin** : Remove contaminated clothes as soon as possible. Remove residue substance as soon as possible (e.g. rinse with plenty of water). In case of a serious exposure call for a doctor.
- 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 victim into the fresh air as soon as possible and let rest. In case of severe exposure call for a doctor. In case of breathing problems, loose squeezing clothes and if victim is conscious bring victim in high sitting position. In case of stagnation of breathing give IMMEDIATELY oxygen and transport to hospital as soon as possible.
- Eyes** : Rinse for a long time with plenty of water. In case of eye-sight disturbances bring victim immediately into the hospital, in other cases call for a doctor

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

|                  |         |  |
|------------------|---------|--|
| Skin             | local   | : The substance is prickling: redness.   |
|                  | general | : The substance may be absorbed via the skin.  |
| Ingestion        | local   | : The substance is prickling: sore throat.   |
|                  | general | : Large concentrations may cause: vomiting, diarrhoea.   |
|                  |         | : The substance may be absorbed after ingestion.   |
|                  |         | : May cause asphyxiation due to formation of foam.   |
| Inhalation       | local   | : Large concentrations may cause: coordination disturbances.                                     |
|                  |         | : Serious cases may cause: fatal end.  |
|                  |         | : The substance is with atomising prickling: sore throat.  |
|                  |         | : Chance of pulmonary oedema: coughing and tightness of the chest, possibly after several hours. |
| Eyes             | general | : Serious cases may cause fatal end.   |
|                  | local   | : The substance may be absorbed after inhalation.  |
| Remarks symptoms |         | : The substance is irritating: redness, pain.  |
|                  |         | : The substance has an effect on: the nervous system, the lungs, the blood (embolization).       |

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

Administer oxygen in the event of shortness of breath.

Use 2.5% calcium gluconate gel as an antidote if the skin is damaged. First flush the affected skin with running water for a lengthy period.

Then apply the gel as quickly as possible with a spatula (about 5 mm thick!).

Rinse the gel off 5 minutes after applying it. Apply a new layer and again rinse off after 5 minutes. Repeat until the pain is relieved. Allow the final layer of gel to dry and leave on the skin for at least several hours. The 2.5% calcium gluconate gel must be replaced every year. Always alert an ambulance.

In the event of gas embolism, consider administering hyperbaric oxygen therapy.

For advice on further treatment contact a (national) poison center.

## SECTION 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, nitrous oxides, potassium oxide, sodium oxide, hydrogen fluoride

### 5.3. Advice for firefighters

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

## SECTION 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

Dependent on quantity spilt paste, one has the choice between: - remove with cleaning rag or paper, or - cover paste with Powersorb, sand, diatomite, vermiculite and suchlike. Shovel the material into plastic bag or other suitable packaging 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.

## SECTION 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** : Depends on processing circumstances, but at least good room ventilation.

**Storage code (on behalf of PGS 15)** : none

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

**Storage conditions** : See also any precautionary statements in section 2.2.  
Store product in a closed packaging, cool, in a well ventilated area, protected from the sun.

**Storage temperature** :  $\geq 15\text{ }^{\circ}\text{C}$  -  $\leq 30\text{ }^{\circ}\text{C}$

### 7.3. Specific end use(s)

Data not available.

## SECTION 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.

TWA(8 hours): 10 mg/m<sup>3</sup>

TWA(8 hours): 50 mg/m<sup>3</sup>

TWA(8 hours): 1.4 mg/m<sup>3</sup>

No TWA has been laid down.

No TWA has been laid down.

TWA(15 minutes): 2 mg/m<sup>3</sup>

No TWA has been laid down.

ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER

GLYCEROL(as aerosol)

1,2-PROPANEDIOL(proposal Health Council)

HYDROGEN PEROXIDE(as hydrogen peroxide 90%)

POTASSIUM NITRAT

EUGENOL

SODIUM FLUORIDE(as fluorine)

WATER

(Statutory threshold limit value)

**applicable to: Belgium (20 °C; 1013 mbar)**

TWA(8 hours): 10 mg/m<sup>3</sup>

TWA(8 hours): 1.4 mg/m<sup>3</sup>

TWA(8 hours): 2.5 mg/m<sup>3</sup>

GLYCEROL(as aerosol)

HYDROGEN PEROXIDE

SODIUM FLUORIDE(as fluorine)

**applicable to: Germany (20 °C; 1013 mbar)**

TWA(8 hours): 200 mg/m<sup>3</sup>

TWA(15 minutes): 400 mg/m<sup>3</sup>

TWA(8 hours): 1.4 mg/m<sup>3</sup>

TWA(8 hours): 1 mg/m<sup>3</sup> S

TWA(15 minutes): 4 mg/m<sup>3</sup> S

GLYCEROL(as inhalable dust)

GLYCEROL(as inhalable dust)

HYDROGEN PEROXIDE

SODIUM FLUORIDE(as fluorine, inhalable dust)

SODIUM FLUORIDE(as fluorine, inhalable dust)

**applicable to: United States of America (25 °C; 1013 mbar)**

TWA(8 hours): 10 mg/m<sup>3</sup>

TWA(8 hours): 15 mg/m<sup>3</sup>

TWA(8 hours): 5 mg/m<sup>3</sup>

TWA(8 hours): 1.4 mg/m<sup>3</sup>

TWA(8 hours): 1.4 mg/m<sup>3</sup>

TWA(8 hours): 2.5 mg/m<sup>3</sup>

TWA(8 hours): 2.5 mg/m<sup>3</sup>

GLYCEROL(as aerosol) - [according to ACGIH]

GLYCEROL(as dust) - [according to OSHA]

GLYCEROL(as respirable dust) - [according to OSHA]

HYDROGEN PEROXIDE- [according to ACGIH]

HYDROGEN PEROXIDE- [according to OSHA]

SODIUM FLUORIDE(as fluorine) - [according to ACGIH]

SODIUM FLUORIDE(as fluorine) - [according to OSHA]

**applicable to: Sweden (20 °C; 1013 mbar)**

TWA(8 hours): 1.4 mg/m<sup>3</sup>

TWA(15 minutes): 3 mg/m<sup>3</sup>

TWA(8 hours): 2 mg/m<sup>3</sup>

HYDROGEN PEROXIDE

HYDROGEN PEROXIDE

SODIUM FLUORIDE(as fluorine)

**applicable to: Switzerland (20 °C; 1013 mbar)**

TWA(8 hours): 50 mg/m<sup>3</sup>

TWA(15 minutes): 100 mg/m<sup>3</sup>

TWA(8 hours): 0.71 mg/m<sup>3</sup>

TWA(15 minutes): 0.71 mg/m<sup>3</sup>

TWA(8 hours): 1 mg/m<sup>3</sup> S

TWA(15 minutes): 4 mg/m<sup>3</sup> S

GLYCEROL(as inhalable dust)

GLYCEROL(as inhalable dust)

HYDROGEN PEROXIDE

HYDROGEN PEROXIDE

SODIUM FLUORIDE(as fluorine, inhalable dust)

SODIUM FLUORIDE(as fluorine, inhalable dust)

**applicable to: China (20 °C; 1013 mbar)**

TWA(8 hours): 1.5 mg/m<sup>3</sup>

TWA(8 hours): 2 mg/m<sup>3</sup>

HYDROGEN PEROXIDE

SODIUM FLUORIDE(as fluorine)

**applicable to: European Union (20 °C; 1013 mbar)**

TWA(8 hours): 2.5 mg/m<sup>3</sup>

SODIUM FLUORIDE(as fluorine)

C=Ceiling; S=Skin

**Remarks exposure limits :**

none

**DNEL (Derived No Effect Level)**

Worker - Inhalation - Long term exposure - Local effects: 56 mg/m3

Worker - Inhalation - Long term exposure - Systemic effects: 168 mg/m3

Worker - Inhalation - Long term exposure - Local effects: 10 mg/m3

Consumer - Inhalation - Long term exposure - Systemic effects: 50 mg/m3

Consumer - Inhalation - Long term exposure - Local effects: 10 mg/m3

Worker - Inhalation - Long term exposure - Local effects: 1.4 mg/m3

Worker - Inhalation - Short term exposure - Local effects: 3 mg/m3

Consumer - Inhalation - Long term exposure - Local effects: 0.210 mg/m3

Consumer - Inhalation - Short term exposure - Local effects: 1.93 mg/m3

Worker - Dermal - Long term exposure - Systemic effects: 20.8 mg/kg bw/day

Worker - Inhalation - Long term exposure - Systemic effects: 36.7 mg/m3

Consumer - Dermal - Long term exposure - Systemic effects: 12.5 mg/kg bw/day

Consumer - Inhalation - Long term exposure - Systemic effects: 10.9 mg/m3

Consumer - Oral - Long term exposure - Systemic effects: 12.5 mg/kg bw/day

Worker - Inhalation - Short term exposure - Systemic effects: 2.5 mg/m3

Worker - Dermal - Long term exposure - Systemic effects: 0.36 mg/kg bw/day

Worker - Dermal - Short term exposure - Systemic effects: 0.36 mg/kg bw/day

GLYCEROL

**Source** : Supplier

1,2-PROPANEDIOL

**Source** : ECHA

1,2-PROPANEDIOL

**Source** : ECHA

1,2-PROPANEDIOL

**Source** : ECHA

1,2-PROPANEDIOL

**Source** : ECHA

HYDROGEN PEROXIDE

**Source** : ECHA

HYDROGEN PEROXIDE

**Source** : ECHA

HYDROGEN PEROXIDE

**Source** : ECHA

HYDROGEN PEROXIDE

**Source** : ECHA

POTASSIUM NITRAT

**Source** : Supplier

POTASSIUM NITRAT

**Source** : Supplier

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**Source** : Supplier

POTASSIUM NITRAT

**Source** : Supplier

SODIUM FLUORIDE

**Source** : Chemicalcards

SODIUM FLUORIDE

**Source** : Chemicalcards

SODIUM FLUORIDE

**Source** : Chemicalcards**PNEC (Predicted No Effect Concentration)**

Soil: 0.141 mg/kg

GLYCEROL

**Source** : Supplier

Sewage Treatment Plant (STP): 1000 mg/l

GLYCEROL

**Source** : Supplier

Marine water: 0.0885 mg/l

GLYCEROL

**Source** : Supplier

Marine water sediment: 0.33 mg/kg

GLYCEROL

**Source** : Supplier

Fresh water sediment: 3.3 mg/kg

GLYCEROL

**Source** : Supplier

Fresh water: 0.885 mg/l

GLYCEROL

**Source** : Supplier

Intermittent releases: 8.85 mg/l

GLYCEROL

**Source** : Supplier

Fresh water: 260 mg/l

1,2-PROPANEDIOL

**Source** : ECHA

Marine water: 26 mg/l

1,2-PROPANEDIOL

**Source** : ECHA

Intermittent releases: 183 mg/l

1,2-PROPANEDIOL

**Source** : ECHA

Sewage Treatment Plant (STP): 20000 mg/l

1,2-PROPANEDIOL

**Source** : ECHA

Fresh water sediment: 572 mg/kg

1,2-PROPANEDIOL

**Source** : ECHA

Marine water sediment: 57.2 mg/kg

1,2-PROPANEDIOL

**Source** : ECHA

Soil: 50 mg/kg

1,2-PROPANEDIOL

**Source** : ECHA

Fresh water: 12.6 µg/l

HYDROGEN PEROXIDE

**Source** : ECHA

Marine water: 12.6 µg/l

HYDROGEN PEROXIDE

**Source** : ECHA

Intermittent releases: 13.8 µg/l

HYDROGEN PEROXIDE

**Source** : ECHA

Sewage Treatment Plant (STP): 4.66 mg/l

HYDROGEN PEROXIDE

**Source** : ECHA

Fresh water sediment: 47 µg/kg

HYDROGEN PEROXIDE

**Source** : ECHA

Marine water sediment: 47 µg/kg

HYDROGEN PEROXIDE

**Source** : ECHA

Soil: 2.3 µg/kg

HYDROGEN PEROXIDE

**Source** : ECHA

Fresh water: 0.45 mg/l

POTASSIUM NITRAT

**Source** : Supplier

Marine water: 0.045 mg/l

POTASSIUM NITRAT

**Source** : Supplier

Intermittent releases: 4.5 mg/l

POTASSIUM NITRAT

**Source** : Supplier

Sewage Treatment Plant (STP): 18 mg/l

POTASSIUM NITRAT

**Source** : Supplier

Fresh water: 0.9 mg/l

SODIUM FLUORIDE

**Source** : Chemicalcards**8.2. Exposure controls****Advised personal protection :**

Hands : butyl rubber gloves  
neoprene gloves

Breakthrough time : For information: consult the supplier of the gloves.

Eyes : acid goggles

Inhalation : none (when sufficient exhausting)

Skin : protective clothing (such as: apron, coverall, boots)

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state** : gel

**Colour** : white

**Odour** : mint

**Odour threshold (20°C; 1013 mbar)** : not traceable

|                                 |   |                   |                    |
|---------------------------------|---|-------------------|--------------------|
| pH                              | : not traceable                             |                   |                    |
| 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                 | : not traceable                             |                   |                    |
| Relative density                | : $\geq 1.1$ - $\leq 1.3$ (water=1) (20 °C) |                   |                    |
| Solubility in water             | : partial                                   |                   |                    |
| Log Po/w                        | : -2.6                                      | GLYCEROL          | Source : IUCLID    |
|                                 | : -1.4                                      | 1,2-PROPANEDIOL   | Source : IUCLID    |
|                                 | : -1.1                                      | HYDROGEN PEROXIDE |                    |
|                                 | : 2.73                                      | EUGENOL           | Source : Easi View |
| Autoignition temperature        | : not traceable                             |                   |                    |
| Decomposition temperature       | : not traceable                             |                   |                    |
| Viscosity                       | : $\geq 300$ - $\leq 1200$ Pa.s (20 °C)     |                   |                    |
| Dust explosions possible in air | : not applicable                            |                   |                    |
| Oxidising properties            | : no  |                   |                    |

## 9.2. Other information

|                          |                 |
|--------------------------|-----------------|
| Solubility in fat        | : not traceable |
| Electrostatic chargement | : no            |

## SECTION 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

Avoid heat and direct sunrays.

### 10.5. Incompatible materials

|                          |  |
|--------------------------|--|
| Hazardous reactions with | : oxidizing substances, strong acids, metals, strong reducing agents, halogens, hydrogen peroxide, potassium permanganate, phosphorus oxide, strong alkaline solutions |
|--------------------------|--|

### 10.6. Hazardous decomposition products

Hazardous decomposition products at heating : none

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

|                             |  |                    |
|-----------------------------|--|--------------------|
| LD-50: >2.0 g/kg (ORL-RAT)  | ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER | Source : Supplier  |
| LD-50: 12.6 g/kg (ORL-RAT)  | GLYCEROL                                 | Source : IUCLID    |
| LD-50: 20 g/kg (ORL-RAT)    | 1,2-PROPANEDIOL                          | Source : IUCLID    |
| LD-50: 801 mg/kg (ORL-RAT)  | HYDROGEN PEROXIDE                        | Source : Supplier  |
| LD-50: 1.901 g/kg (ORL-RBT) | POTASSIUM NITRAT                         | Source : Easi View |
| LD-50: >2 g/kg (ORL-RAT)    | POTASSIUM NITRAT                         | Method : OECD 425  |
|                             |  | Source : Supplier  |
| LD-50: 1.93 g/kg (ORL-RAT)  | EUGENOL                                  | Source : Easi View |
| LD-50: 3 g/kg (ORL-MUS)     | EUGENOL                                  | Source : Easi View |
| LD-50: 52 mg/kg (ORL-RAT)   | SODIUM FLUORIDE                          | Source : Easi View |

#### Acute dermal toxicity

|                            |                   |                   |
|----------------------------|-------------------|-------------------|
| LD-50: >10 g/kg (SKN-RBT)  | GLYCEROL          | Source : ACROS    |
| LD-50: 20.8 g/kg (SKN-RBT) | 1,2-PROPANEDIOL   | Source : IUCLID   |
| LD-50: 4.06 g/kg (SKN-RAT) | HYDROGEN PEROXIDE | Source : IUCLID   |
| LD-50: >2 g/kg (SKN-RAT)   | POTASSIUM NITRAT  | Method : OECD 402 |
|                            |                   | Source : Supplier |

### Acute inhalation toxicity

There are no data available.

### Ames test

|          |                  |        |                   |
|----------|------------------|--------|-------------------|
| negative | GLYCEROL         | Source | : ChemDat (Merck) |
| negative | 1,2-PROPANEDIOL  | Source | : ChemDat (Merck) |
| negative | POTASSIUM NITRAT | Source | : IUCLID          |
| negative | EUGENOL          | Source | : ChemDat (Merck) |

### Skin corrosion/irritation

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

### Serious eye damage/irritation

Causes serious eye 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.

### Additional information regarding carcinogenicity (NTP, IARC, OSHA)

|         |          |          |  |
|---------|----------|----------|--|
| NTP: no | IARC: no | OSHA: no | ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER |
| NTP: no | IARC: no | OSHA: no | GLYCEROL                                 |
| NTP: no | IARC: no | OSHA: no | 1,2-PROPANEDIOL                          |
| NTP: no | IARC: 3  | OSHA: no | HYDROGEN PEROXIDE                        |
| NTP: no | IARC: no | OSHA: no | POTASSIUM NITRAT                         |
| NTP: no | IARC: 3  | OSHA: no | EUGENOL                                  |
| NTP: no | IARC: no | OSHA: no | SODIUM FLUORIDE                          |
| NTP: no | IARC: no | OSHA: no | WATER                                    |

### 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.   |
|                  | general | : | The substance may be absorbed via the skin.  |
| Ingestion        | local   | : | The substance is prickling: sore throat.   |
|                  | general | : | Large concentrations may cause: vomiting, diarrhoea.   |
|                  |         | : | The substance may be absorbed after ingestion.   |
|                  |         | : | May cause asphyxiation due to formation of foam.   |
| Inhalation       | local   | : | Large concentrations may cause: coordination disturbances.                                     |
|                  |         | : | Serious cases may cause: fatal end.  |
|                  | general | : | The substance is with atomising prickling: sore throat.  |
|                  |         | : | Chance of pulmonary oedema: coughing and tightness of the chest, possibly after several hours. |
| Eyes             | general | : | Serious cases may cause fatal end.   |
|                  | local   | : | The substance may be absorbed after inhalation.  |
| Remarks symptoms |         | : | The substance is irritating: redness, pain.  |
|                  |         | : | The substance has an effect on: the nervous system, the lungs, the blood (embolization).       |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

|                                 |                   |        |                   |
|---------------------------------|-------------------|--------|-------------------|
| LC-50: >10000 mg/l/96H (Fish)   | GLYCEROL          | Source | : IUCLID          |
| LC-50: 23800 mg/l/96H (Fish)    | 1,2-PROPANEDIOL   | Method | : OECD 203        |
| EC-50: 34400 mg/l/48H (Daphnia) | 1,2-PROPANEDIOL   | Source | : IUCLID          |
| IC-50: 19000 mg/l/96H (Algae)   | 1,2-PROPANEDIOL   | Source | : IUCLID          |
| LC-50: 16.4 mg/l/96H (Fish)     | HYDROGEN PEROXIDE | Source | : ChemDat (Merck) |
| EC-50: 2.4 mg/l/48H (Daphnia)   | HYDROGEN PEROXIDE | Source | : IUCLID          |
| IC-50: 2.5 mg/l/72H (Algae)     | HYDROGEN PEROXIDE | Source | : IUCLID          |
| NOEC-Fish: 5 mg/l/96H           | HYDROGEN PEROXIDE | Source | : IUCLID          |
| NOEC-Daphnia: 1 mg/l/48H        | HYDROGEN PEROXIDE | Source | : IUCLID          |
| NOEC-Algae: 0.1 mg/l/72H        | HYDROGEN PEROXIDE | Source | : IUCLID          |
| LC-50: 1378 mg/l/96H (Fish)     | POTASSIUM NITRAT  | Source | : IUCLID          |



EC-50: 490 mg/l/48H (Daphnia)  
LC-50: 24 mg/l/96H (Fish)  
LC-50: 51 mg/l/96H (Fish)  
EC-50: 98 mg/l/48H (Daphnia)  
IC-50: 850 mg/l/72H (Algae)

POTASSIUM NITRAT  
EUGENOL  
SODIUM FLUORIDE  
SODIUM FLUORIDE  
SODIUM FLUORIDE

**Source** : ChemDat (Merck)  
**Source** : Easi View

## 12.2. Persistence and degradability

**Biological oxygen demand (5)** : 0.86 g/g  
1.17 g/g  
**Chemical oxygen demand** : 1.16 g/g  
2.60 g/g  
**Biological(5)/chemical oxygen demand ratio** : 0.741  
0.45  
**Degradability** : readily  
readily  
readily

GLYCEROL  
1,2-PROPANEDIOL  
GLYCEROL  
1,2-PROPANEDIOL  
GLYCEROL  
1,2-PROPANEDIOL  
GLYCEROL  
EUGENOL

**Source** : IUCLID  
**Source** : IUCLID  
**Source** : IUCLID  
**Source** : IUCLID  
**Source** : ChemDat (Merck)  
**Source** : ChemDat (Merck)

## 12.3. Bioaccumulative potential

**Bioconcentration factor (BCF)** : <1.0  
2.27  
**Log Po/w** : -2.6  
-1.4  
-1.1  
2.73

1,2-PROPANEDIOL  
EUGENOL  
GLYCEROL  
1,2-PROPANEDIOL  
HYDROGEN PEROXIDE  
EUGENOL

**Source** : ChemDat (Merck)  
**Source** : ChemDat (Merck)  
**Source** : IUCLID  
**Source** : IUCLID  
**Source** : Easi View

## 12.4. Mobility in soil

**Henry Constant** : 6.06E-7 atm m3/mol  
1.18E-8 atm m3/mol  
4.81E-8 atm m3/mol

ETHYLENE OXIDE/PROPYLENE OXIDE COPOLYMER  
1,2-PROPANEDIOL  
EUGENOL

**Source** : Easi View  
**Source** : ChemDat (Merck)  
**Source** : Easi View

## 12.5. Results of PBT and vPvB assessment

Data not available.

## 12.6. Other adverse effects

**Remarks on ecotoxicity** : none

# SECTION 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.

# SECTION 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 Marpol and the IBC Code



Data not available.

## SECTION 15: Regulatory information

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

- The component(s), as mentioned in section 3, are registered in the Toxic Substances Control Act Inventory (TSCA-USA).

### 15.2. Chemical safety assessment

- Data not available.

## SECTION 16: Other information

Remarks on SDS : none

### Overview relevant H-sentences from all components in section 3

|        |  |
|--------|--|
| H271   | May cause fire or explosion; strong oxidiser.      |
| H301   | Toxic if swallowed.                                |
| H302   | Harmful if swallowed.                              |
| H314   | Causes severe skin burns and eye damage.           |
| H315   | Causes skin irritation.                            |
| H317   | May cause an allergic skin reaction.               |
| H319   | Causes serious eye irritation.                     |
| H332   | Harmful if inhaled.                                |
| H335   | May cause respiratory irritation.                  |
| H412   | Harmful to aquatic life with long lasting effects. |
| EUH032 | Contact with acids liberates very toxic gas.       |

### 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   |
| NTP       | National Toxicology Program   |
| KHC       | Known Human Carcinogen  |
| RAHC      | Reasonably Anticipated Human Carcinogen   |
| IARC      | International Agency for Research on Cancer   |
| OSHA      | Occupational Safety & Health Administration   |
| 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 Safety Data Sheet is believed to be correct as of the date issued. Philips Electronics Nederland B.V. makes no warranty as to its contents, nor as to its fitness for any particular purpose or use.