

| 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier Trade name POLISOL LIQUID, POLIPRESS LIQUID 1.2 Relevant identifier uses of the substance or mixture and uses advised against Recommended use Manufacturing of metal crowns and bridges in a dental laboratory 1.3 Details of the supplier of the Safety Data Sheet Manufacturer/supplier Polident d.o.o., Dental Products Industry Volčja Draga 42, 5293 Volčja Draga, Slovenija Tel.:00386 5 3304840, Fax: 00386 5 3304870 E-mail: polident@polident.si Information provided by 00386 5 3304859 1.4 Emergency telephone number 00386 5 3304840 | | | | | | | | |
|--|-----------------------|----------|--|----------------------|---------------------|-----------------------|-------|--|
| 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 The product does not meet the criteria for classification and labeling in accordance with the Regulation (EC) No. 1272/2008. 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 Not relevant. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. | | | | | | | | |
| 3. COMPOSITION/INFORMATION ON INGREDIENTS 3.2 Chemical characterization: Mixtures Composition: <table border="1"><thead><tr><th>Identification</th><th>CAS / EC</th><th>%</th><th>(ES) 1272/2008 (CLP)</th></tr></thead><tbody><tr><td>Precipitated silica</td><td>7631-86-9 / 231-545-4</td><td>30-60</td><td>No ingredients according to the criteria of the Regulation (EC) No.1907/2006</td></tr></tbody></table> | Identification | CAS / EC | % | (ES) 1272/2008 (CLP) | Precipitated silica | 7631-86-9 / 231-545-4 | 30-60 | No ingredients according to the criteria of the Regulation (EC) No.1907/2006 |
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| 4. FIRST AID MEASURES 4.1 Description of first aid measures General information As a general rule, in case of doubt or if symptoms persist, always call a doctor. Inhalation Remove affected person from the immediate area. Ensure supply of fresh air. Call a doctor immediately. Skin contact In case of contact with skin wash off with water. | | | | | | | | |

Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIRE – FIGHTING MEASURES

Non-flammable.

5.1 Extinguishing media

Suitable extinguishing media

Any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media for safety reasons

High power water jet.

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Adapt extinguisher and fire-fighting measures to fire in the environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, general-purpose binder). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation of working area (local exhaust ventilation, if necessary).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Keep only in the original container. Protect against humidity. Recommended storage temperature: 20-30°C. Avoid Temperatures lower than 5°C.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

8.1 Control parameters

-Slovenia

| | CAS | EC | 8h TWA |
|---------------------|-----------|-----------|-------------------------|
| Precipitated silica | 7631-86-9 | 231-545-4 | 4 (I) mg/m ³ |
| | | | |

-Germany

| | CAS | EC | AGW (DE TRGS 900) Respirable fraction |
|---------------------|-----------|-----------|---------------------------------------|
| Precipitated silica | 7631-86-9 | 231-545-4 | 4 mg/m ³ |
| | | | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use effective ventilation to keep exposure to airborne particles below the exposure limit.

8.2.2 Personal protective equipment

Eye/face protection

Safety glasses with side protection shield (EN 166).

Hand protection

Suitable protective gloves (PVC, rubber gloves).

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection of an approved type (FFP2 or FFP3) for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form: Liquid

Colour: White

Odour: Not relevant

pH – value: 9-10

Changes in condition: /

Melting point (°C): 0

Boiling point (°C): 100

Flash point (°C): No data available.

Relative evaporation rate (Ether=1): No data available.

Flammability (solid, gas): No data available.

Auto Ignition temperature(°C): No data available.

Decomposition temperature (°C): No data available.

Lower explosion limit (%vv/v): No data available.

Upper explosion limit (%vv/v): No data available.

Vapour pressure: 23 hPa at 20°C.

Vapour density (Air=1): No data available.

Relative density (g/cm³): 1.1-1.4

Viscosity, dynamic (mPas): < 20

Solubility in water: No data available.

Solubility (quantitative): No data available.

Partition coefficient (n-Octanol/water): No data available.

Explosive properties: Not applicable

Oxidising properties: Not applicable

9.2 Other information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

This mixture is stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

Avoid drying out the solvent as this may cause dust formation.

10.5 Incompatible materials

Materials to avoid: copper, steel, aluminium.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not classified according to the available information.

Skin corrosion/irritation

Not classified according to the available information.

Serious damage to eyes/eye irritation

Not classified according to the available information.

Respiratory or skin sensitization

Not classified according to the available information.

Germ cell mutagenicity

Not classified according to the available information.

Carcinogenicity

Not classified according to the available information.

Reproductive toxicant

Not classified according to the available information.

STOT-single exposure

Not classified according to the available information.

STOT-repeated exposure

Not classified according to the available information.

Aspiration hazard

Not classified according to the available information.

11.2 Test results

Acute oral toxicity

LD50: > 5000 mg/kg, species: rat

The value was estimated by similar products.

Respiratory or skin sensitisation

Does not cause sensitization in laboratory animals (Magnusson-Kligman).

The value was estimated by similar products.

Germ cell mutagenicity

Genotoxicity in vitro: Ames test – negative (OECD 471)

The value was estimated by similar products.

Silicon dioxide, amorphous

Acute oral toxicity

LD50: > 10 000 mg/kg, species: rat

12. ECOLOGICAL INFORMATION

12.1 Toxicity

| Fish toxicity | |
|----------------------|--|
| LC50 | > 5000 mg/l |
| Duration of exposure | 96 h |
| Species | Danio rerio |
| Reference substance | Silicon dioxide |
| Method | The value was estimated by similar products. |

| Daphnia toxicity | |
|-------------------------|--|
| EC50 | 7600 mg/l |
| Duration of exposure | 48 h |
| Species | Ceriodaphnia dubia |
| Reference substance | Silicon dioxide |
| Method | The value was estimated by similar products. |

| | |
|-----------------------|--|
| Algae toxicity | |
| NOEC | 60 mg/l |
| Duration of exposure | 48 h |
| Species | Selenastrum capricornutum |
| Reference substance | Silicon dioxide |
| Method | The value was estimated by similar products. |

| | |
|----------------------|--|
| EC50 | 120 mg/l |
| Duration of exposure | 48 h |
| Species | Selenastrum capricornutum |
| Reference substance | Silicon dioxide |
| Method | The value was estimated by similar products. |

| | |
|----------------------|--|
| EC10 | 140 mg/l |
| Duration of exposure | 48 h |
| Species | Selenastrum capricornutum |
| Reference substance | Silicon dioxide |
| Method | The value was estimated by similar products. |

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT: Not relevant.

vPvB: Not relevant.

12.6 Other adverse effects

No data available.

12.7 Other information

Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14. TRANSPORT INFORMATION

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI/IATA

The product is not subject to ICAO-TI/IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15. REGULATORY INFORMATION

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

- **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

- **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

- **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

- **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical Safety Assessment

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

16. OTHER INFORMATION

- **Abbreviations**

DNEL – Derived No-Effect Level

PNEC – Predicted No-Effect Concentration

ADR – European agreement concerning the international carriage of dangerous goods by Road

IMDG – International Maritime Dangerous Goods

IATA – International Air Transport Association

ICAO – International Civil Aviation Organisation

RID – Regulations concerning the International carriage of Dangerous goods by rail

PBT – Persistent, bioaccumulable and toxic

vPvB – Very persistent, very bioaccumulable

SVHC – Substances of very high concern

- **Further information**

This information is based on our present knowledge and experience. They are intended as a description of the products safety requirements and are not to be seen as a guarantee of certain product's features. The mixture must not be used for other uses than those specified in Section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

New versions of Safety Data Sheet will be *laying printed* for the data compared to the previous version altered.