



SAFETY DATA SHEET

KaVo. Dental Excellence.

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

1.1. Product identifier

| | |
|---|--|
| Trade name or designation of the mixture | KaVo PROPHYflex 2 – 2012 – Reinigungspulver ohne Geschmack |
| SDS number | 8132 |
| Product code | 0,489,0020 |
| Issue date | 22-May-2013 |
| Version number | 1.0 |
| Revision date | 22-May-2013 |
| Supersedes date | 22-May-2013 |
| Product use | Professional use |

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

| | |
|-----------------------------|----------------|
| Identified uses | Not available. |
| Uses advised against | None known |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------------------------|--|
| Company name | Kaltenbach & Voigt GmbH |
| Address | Bismarckring 39 D-88400 Biberach Germany |
| Telephone number | +49 (0) 7351 56-0 |
| Fax | +49 (0) 7351 1488 |
| Contact person | Peter Fischer |
| Telephone number | +49 (0) 175 30 57725 |
| e-mail | peter.fischer@bayer.com |
| Emergency telephone number | +49 (0) 7351 56 4000 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Hazard summary

| | |
|------------------------------|--|
| Physical hazards | Not classified for physical hazards. |
| Health hazards | Not classified for health hazards. |
| Environmental hazards | Not classified for hazards to the environment. |
| Specific hazards | Not available. |
| Main symptoms | Not available. |

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

| | |
|-----------------------------|----------------|
| EC number | - |
| EC label | Not available. |
| R-phrases | Not available. |
| S-phrases | Not available. |
| Authorisation number | Not available. |

Supplemental label information Not applicable.

2.3. Other hazards Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|--------------------------|---------------|-----------------------|------------------------|-----------|-------|
| Sodium hydrogencarbonate | - | 144-55-8 205-633-8 | - | - | |
| Classification: | DSD: - | | | | |
| | CLP: - | | | | |

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Call a physician if symptoms develop or persist. |
| Skin contact | Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Get medical advice/attention if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed Not available.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
| Unsuitable extinguishing media | None known. |

5.3. Advice for firefighters

| | |
|--|---|
| Special protective equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Special fire fighting procedures | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|----------------|
| For non-emergency personnel | Not available. |
| For emergency responders | Not available. |

6.2. Environmental precautions No special environmental precautions required.

6.3. Methods and material for containment and cleaning up This product is miscible in water. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid prolonged exposure. Use care in handling/storage.

7.2. Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. The substance is hygroscopic and will absorb water by contact with the moisture in the air.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|--|--|
| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Recommended monitoring procedures | Follow standard monitoring procedures. |

8.2. Exposure controls

| | |
|---|---|
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
|---|---|

Individual protection measures, such as personal protective equipment

| | |
|--|---|
| Eye/face protection | Not normally needed. |
| Skin protection | |
| - Hand protection | Not normally needed. |
| - Other | Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Thermal hazards | Not available. |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practices. |
| Environmental exposure controls | Not available. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|--|-------------------------------|
| Physical state | Solid. |
| Form | Powder. |
| Colour | White. |
| Odour | Odourless. |
| Odour threshold | Not available. |
| pH | 8.6 (50 g/l) @ 20 °C |
| Melting point/freezing point | 270 °C (518 °F) Decomposition |
| Initial boiling point and boiling range | Not available. |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Not applicable. |

Upper/lower flammability or explosive limits

| | |
|--|-----------------|
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapour pressure | Not applicable. |
| Vapour density | Not applicable. |
| Relative density | Not available. |
| Solubility(ies) | 95 g/l @ 20 °C |
| Partition coefficient (n-octanol/water) | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not applicable. |
| Explosive properties | Not available. |
| Oxidizing properties | Not available. |

9.2. Other information

| | |
|---------------------|------------|
| Bulk density | 1000 kg/m3 |
|---------------------|------------|

| | |
|--------------------|---------------------------------|
| Density | 2.22 g/cm ³ (@ 20°C) |
| Solubility (other) | Ethanol not soluble |

SECTION 10: Stability and reactivity

| | |
|--|---|
| 10.1. Reactivity | None known. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Avoid temperatures above 482°F (250°C). Moisture. |
| 10.5. Incompatible materials | Avoid contact with acids. Fluorine. Alkali metals. |
| 10.6. Hazardous decomposition products | Carbon oxides. |

SECTION 11: Toxicological information

| | |
|---------------------|----------------|
| General information | Not available. |
|---------------------|----------------|

Information on likely routes of exposure

| | |
|--------------|----------------|
| Ingestion | Not available. |
| Inhalation | Not available. |
| Skin contact | Not available. |
| Eye contact | Not available. |

| | |
|----------|----------------|
| Symptoms | Not available. |
|----------|----------------|

11.1. Information on toxicological effects

| Components | Species | Test results |
|--|----------------|--------------|
| Sodium hydrogencarbonate (144-55-8) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | 4220 mg/kg |
| Skin corrosion/irritation | Not available. | |
| Serious eye damage/irritation | Not available. | |
| Respiratory sensitisation | Not available. | |
| Skin sensitisation | Not available. | |
| Germ cell mutagenicity | Not available. | |
| Carcinogenicity | Not available. | |
| Reproductive toxicity | Not available. | |
| Specific target organ toxicity - single exposure | Not available. | |
| Specific target organ toxicity - repeated exposure | Not available. | |
| Aspiration hazard | Not available. | |
| Mixture versus substance information | Not available. | |
| Other information | Not available. | |

SECTION 12: Ecological information

| | |
|----------------|--|
| 12.1. Toxicity | Not expected to be harmful to aquatic organisms. |
|----------------|--|

| Components | Species | Test results |
|--|--|--|
| Sodium hydrogencarbonate (144-55-8) | | |
| Aquatic | | |
| Fish | LC50 | Western mosquitofish (<i>Gambusia affinis</i>) 7550 mg/l, 96 hours |
| 12.2. Persistence and degradability | No data is available on the degradability of this product. | |
| 12.3. Bioaccumulative potential | Not available. | |
| Partition coefficient n-octanol/water (log K _{ow}) | Not available. | |
| Bioconcentration factor (BCF) | Not available. | |
| 12.4. Mobility in soil | Not available. | |

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code EWC-code: 18 01 07

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations

Not available.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

None.

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.