



# 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 LIFEtime Clean 2 N |
| REACH Registration Number                | -                       |
| Product code                             | 0,489,3025; 0,489,3026  |
| Issue date                               | 09-November-2011        |
| Version number                           | 1.0                     |
| Revision date                            | 08-January-2013         |
| Supersedes date                          | 09-November-2011        |
| 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<br>D-88400 Biberach<br>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

**Classification** Xn;R22, Xi;R41, R52/53

The full text for all R-phrases is displayed in section 16.

#### Hazard summary

|                              |   |
|------------------------------|---|
| <b>Physical hazards</b>      | Not classified for physical hazards.  |
| <b>Health hazards</b>        | Harmful if swallowed. Risk of serious damage to eyes.   |
| <b>Environmental hazards</b> | Harmful to aquatic organisms, May cause long-term adverse effects in the aquatic environment.   |
| <b>Specific hazards</b>      | Risk of serious damage to eyes. Harmful if swallowed. Do not breathe dust/fume/gas/mist/vapors/spray. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>Main symptoms</b>         | Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.   |

### 2.2. Label elements

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

|                  |   |
|------------------|---|
| <b>Contains:</b> | Amines, coco alkyl, ethoxylated, Polyethylene Glycol Monoisodecyl Ether |
| <b>EC number</b> | -   |

## EC label



Harmful

### R-phrases

R22 Harmful if swallowed.  
R41 Risk of serious damage to eyes.  
R52/53 Harmful to aquatic organisms, May cause long-term adverse effects in the aquatic environment.

### S-phrases

S13 Keep away from food, drink and animal feeding stuffs.  
S20 When using do not eat or drink.  
S23 Do not breathe gas/fumes/vapour/spray.  
S25 Avoid contact with eyes.  
S39 Wear eye/face protection.  
S60 This material and its container must be disposed of as hazardous waste.

**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 |
|---------------|---|------------------|------------------------|-----------|-------|
|---------------|---|------------------|------------------------|-----------|-------|

|  |         |            |   |   |  |
|--|---------|------------|---|---|--|
| Polyethylene Glycol Monoisodecyl Ether | 10 - 20 | 61827-42-7 | - | - |  |
|--|---------|------------|---|---|--|

**Classification:** **DSD:** Xn;R22, Xi;R41  
**CLP:** Acute Tox. 4;H302, Eye Dam. 1;H318

|                                 |       |                         |   |   |  |
|---------------------------------|-------|-------------------------|---|---|--|
| Amines, coco alkyl, ethoxylated | 3 - 7 | 61791-14-8<br>500-152-2 | - | - |  |
|---------------------------------|-------|-------------------------|---|---|--|

**Classification:** **DSD:** Xn;R22, Xi;R36, N;R51/53  
**CLP:** Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Chronic 2;H411

#: This substance has workplace exposure limit(s).  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.

**Composition comments** The full text for all R-phrases is displayed in Section 16.

## SECTION 4: First aid measures

#### General information

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

##### Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

##### Eye contact

Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Get medical attention immediately.

##### Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result.

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

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

|   |  |
|---|--|
| <b>General fire hazards</b>                                       | Not available.   |
| <b>5.1. Extinguishing media</b>                                   |  |
| <b>Suitable extinguishing media</b>                               | Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.   |
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet.  |
| <b>5.2. Special hazards arising from the substance or mixture</b> | Fire may produce irritating, corrosive and/or toxic gases.   |
| <b>5.3. Advice for firefighters</b>                               |  |
| <b>Special protective equipment for firefighters</b>              | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.                         |
| <b>Special fire fighting procedures</b>                           | Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. Water runoff can cause environmental damage. |

## **SECTION 6: Accidental release measures**

|   |  |
|---|--|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> |  |
| <b>For non-emergency personnel</b>  | Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Avoid inhalation of vapours and spray mists.  |
| <b>For emergency responders</b>   | Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.   |
| <b>6.2. Environmental precautions</b>   | Avoid release to the environment. Refer to special instructions/safety data sheets. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.   |
| <b>6.3. Methods and material for containment and cleaning up</b>                | Extinguish all flames in the vicinity.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills in original containers for re-use. |
| <b>6.4. Reference to other sections</b>   | For personal protection, see section 8. For waste disposal, see section 13.  |

## **SECTION 7: Handling and storage**

|  |  |
|--|--|
| <b>7.1. Precautions for safe handling</b>                                | Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes.  |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. Avoid temperatures below -12°C. |
| <b>7.3. Specific end use(s)</b>  | Not available.   |

## **SECTION 8: Exposure controls/personal protection**

|  |   |
|--|---|
| <b>8.1. Control parameters</b>   |   |
| <b>Occupational exposure limits</b>  | No exposure limits noted for ingredient(s).   |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |
| <b>Recommended monitoring procedures</b>                                     | Follow standard monitoring procedures.  |
| <b>8.2. Exposure controls</b>  |   |
| <b>Appropriate engineering controls</b>                                      | 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. Provide adequate general and local exhaust ventilation. |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | Wear chemical goggles.  |
| <b>Skin protection</b>   |   |
| <b>- Hand protection</b>   | Wear protective gloves. Latex gloves. Nitrile rubber.   |

|  |   |
|--|---|
| <b>- Other</b>                         | Avoid contact with the skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Personal protection equipment should be chosen according to the GEN standards and in discussion with the supplier of the personal protective equipment. |
| <b>Respiratory protection</b>          | Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.   |
| <b>Thermal hazards</b>                 | Not available.  |
| <b>Hygiene measures</b>                | When using, do not eat, drink or smoke. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices.  |
| <b>Environmental exposure controls</b> | Environmental manager must be informed of all major releases.   |

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

|   |   |
|---|---|
| <b>Physical state</b>                               | Liquid.                                       |
| <b>Form</b>   | Liquid.                                       |
| <b>Colour</b>                                       | Light yellow.                                 |
| <b>Odour</b>  | Characteristic.                               |
| <b>Odour threshold</b>                              | Not available.                                |
| <b>pH</b>   | Not applicable.                               |
| <b>Melting point/freezing point</b>                 | Not available.                                |
| <b>Initial boiling point and boiling range</b>      | > 100 °C (> 212 °F)                           |
| <b>Flash point</b>                                  | Not applicable.                               |
| <b>Evaporation rate</b>                             | Not applicable.                               |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                               |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.                                |
| <b>Flammability limit - upper (%)</b>               | Not available.                                |
| <b>Vapour pressure</b>                              | 23 mbar @ 20°C                                |
| <b>Vapour density</b>                               | Not applicable.                               |
| <b>Relative density</b>                             | 1.01 g/cm <sup>3</sup> @ 20°C DIN 51757       |
| <b>Solubility(ies)</b>                              | miscible                                      |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                                |
| <b>Decomposition temperature</b>                    | Not available.                                |
| <b>Viscosity</b>                                    | low   |
| <b>Explosive properties</b>                         | Not available.                                |
| <b>Oxidizing properties</b>                         | Not available.                                |
| <b>9.2. Other information</b>                       | No relevant additional information available. |

## **SECTION 10: Stability and reactivity**

|   |   |
|---|---|
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.                   |
| <b>10.3. Possibility of hazardous reactions</b> | Not available.  |
| <b>10.4. Conditions to avoid</b>                | None under normal conditions. Avoid temperatures below -12°C. |
| <b>10.5. Incompatible materials</b>             | None known.   |
| <b>10.6. Hazardous decomposition products</b>   | No dangerous reaction known under conditions of normal use.   |

## **SECTION 11: Toxicological information**

|   |                       |
|---|-----------------------|
| <b>General information</b>                      | Not available.        |
| <b>Information on likely routes of exposure</b> |                       |
| <b>Ingestion</b>                                | Harmful if swallowed. |
| <b>Inhalation</b>                               | Not available.        |

|                     |   |
|---------------------|---|
| <b>Skin contact</b> | Not available.  |
| <b>Eye contact</b>  | Risk of serious damage to eyes.   |
| <b>Symptoms</b>     | Irritation of eyes and mucous membranes. Permanent eye damage including blindness could result. |

#### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

| <b>Components</b> | <b>Species</b> | <b>Test results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

|   |  |  |
|---|--|--|
| Polyethylene Glycol Monoisodecyl Ether (61827-42-7) |  |  |
|---|--|--|

##### **Acute**

*Oral*

Rat

1140 mg/kg

**Skin corrosion/irritation** Not available.

**Serious eye damage/irritation** Risk of serious damage to eyes.

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

**12.2. Persistence and degradability** The product contains surfactants with an average biodegradability of 90% or more.

**12.3. Bioaccumulative potential** Not available.

**Partition coefficient n-octanol/water (log Kow)** 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.

**12.6. Other adverse effects** Not available.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

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

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable regulations.

## **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.

#### 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**

R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R41 Risk of serious damage to eyes.  
R51/53 Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, May cause long-term adverse effects in the aquatic environment.  
H302 - Harmful if swallowed.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

**Revision information**

SECTION 9: Physical and chemical properties: <INDENT>Form

**Training information**

Not available.

**Disclaimer**

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