1 Identification of substance:

- Product details:
  - Trade name: Polysol KWV
  - Application of the substance / the preparation: Detergent

- Manufacturer/Supplier:
  SEITZ GmbH
  Gutenbergstrasse 3
  65830 Kriftel / Germany
  Tel. + 49(0) 6192-9948-0
  Fax + 49(0) 6192-9948-99
  msds@seitz24.com
  www.seitz24.com

- Further information obtainable from: Laboratory
- Information in case of emergency:
  +49(0) 6192-9948-88 (http://seitzweb.seitz24.com/emergency/)

2 Hazards identification

- Hazard description:
  Xn Harmful

- Information concerning to particular hazards to man and environment
  The product has to be labelled due to the calculation procedure of the "General Classification
guideline for preparations of the EU" in the latest valid version.
  R 36  Irritating to eyes.
  R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic
  environment.
  R 65  Harmful: may cause lung damage if swallowed.

- Classification system
  The classification is according to the latest editions of the EU-lists, and extended by company and
  literature data.

3 Composition/information on ingredients

- Chemical characterization
  - Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Description</th>
<th>Hazard Class</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>68551-17-7</td>
<td>271-366-9</td>
<td>isoalkanes</td>
<td>Xn, R 65-66</td>
<td>50 -100%</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>252-104-2</td>
<td>anionic surfactant</td>
<td>Xi, R 38-41</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>3380-34-5</td>
<td>222-182-2</td>
<td>(2-methoxymethylethoxy)propanol</td>
<td>&lt; 5%</td>
<td></td>
</tr>
<tr>
<td>68551-17-7</td>
<td>271-366-9</td>
<td>non-ionic surfactant</td>
<td>Xi, R 41</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>252-104-2</td>
<td>TRICLOSAN</td>
<td>Xi, N, R 36/38-50/53</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>

- Regulation (EC) No 648/2004 - Labelling for contents

  - aliphatic hydrocarbons: ≥ 30%
  - anionic surfactants: 5 - 15%
  - non-ionic surfactants: < 5%
  - TRICLOSAN:
Trade name: **Polysol KWV**

(Contd. of page 1)

### 4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation**
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact**
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- **After eye contact**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
  Rinse out mouth and then drink plenty of water.
  Do not induce vomiting; call for medical help immediately.
- **Information for doctor**
  In case of swallowing followed by vomiting aspiration into lungs may occur, which may lead to chemical pneumonia or suffocation.

### 5 Fire fighting measures

- **Suitable extinguishing agents**
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents**
  Water with full jet.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
  In case of fire, the following can be released:
  - carbon monoxide and carbon dioxide (CO, CO2)
  - sulfur oxides (SOx)
  Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**
  Do not inhale explosion gases or combustion gases.
  Wear self-contained respiratory protective device.
- **Additional information**
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Person-related safety precautions:**
  Wear protective equipment. Keep unprotected persons away.
  Avoid contact with skin and eyes.
  Ensure adequate ventilation
  Do not breathe gases/vapours.
  Keep away from ignition sources
- **Measures for environmental protection:**
  Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of the material collected according to regulations.
7 Handling and storage

- **Handling**
  - **Information for safe handling:**
    - Keep away from heat and direct sunlight.
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of aerosols.
    - Avoid contact with eyes and skin.
    - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  
  - **Information about fire - and explosion protection:**
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
    - Formation of explosive vapour- / air mixture possible.

- **Storage**
  - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
  
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  
  - **Further information about storage conditions:**
    - Store in cool, dry conditions in well sealed receptacles.
    - Store receptacle in a well ventilated area.
    - Protect from frost.
    - Time of storage: max. 18 month

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8 (2-methoxymethyleneoxy)propanol</td>
<td>WEL Long-term value: 308 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment**
  
  - **General protective and hygienic measures**
    - The usual precautionary measures are to be adhered to when handling chemicals.
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Do not eat, drink, smoke or sniff while working.
    - Wash hands before breaks and at the end of work.
    - Do not inhale gases / vapours / aerosols.
    - Avoid contact with the eyes and skin.
  
  - **Respiratory protection:**
    - Not necessary if room is well-ventilated.
    - Use suitable respiratory protective device in case of insufficient ventilation.
  
  - **Protection of hands:**
    - Solvent resistant gloves
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  
  - **Material of gloves**
    - Nitrile rubber, NBR
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)
9 Physical and chemical properties:

- **General Information**
  - Form: Fluid
  - Colour: Light yellow
  - Odour: Product specific

- **Change in condition**
  - Melting point/Melting range: not applicable
  - Boiling point/Boiling range: undetermined

- **Flash point**: 67°C (EN 22719)

- **Self-igniting**: Product is not selfigniting.

- **Danger of explosion**: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Density at 20°C**: \(~ 0.800 \text{ g/cm}^3\) (ISO 2811)

- **Solubility in / Miscibility with Water**: Not miscible or difficult to mix

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications. To avoid thermal decomposition do not overheat.

- **Materials to be avoided**: Strong oxidizing agents

- **Dangerous reactions**: Forms flammable gases / fumes

- **Dangerous decomposition products**: None if used as directed.

11 Toxicological information

- **Acute toxicity**

- **Primary irritant effect**
  - on the skin: Irritating effects possible.
  - on the eye: Irritating effect.

- **Sensitization**: No sensitizing effects known.

- **Additional toxicological information**: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Harmful

12 Ecological information:

- **General notes**:
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system. The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product contains materials that are harmful to the environment.

13 Disposal considerations

- **Product:**
  - **Recommendation:**
    After prior treatment product has to be landfilled or incinerated adhering to the regulations pertaining to the disposal of especially hazardous waste.

- **Waste disposal key:**
  The classification of waste code numbers according to the European Waste Catalogue is specific for the trade and processes involved and subject to observation of national and local legal requirements and prescriptions.

- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border):**
  - ADR/RID class: -

- **Maritime transport IMDG:**
  - IMDG Class: -

- **Air transport ICAO-TI and IATA-DGR:**
  - ICAO/IATA Class: -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Labelling according to EU guidelines:**
  The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV). Observe the general safety regulations when handling chemicals

- **Code letter and hazard designation of product:**
  Xn Harmful

- **Hazard-determining components of labelling:**
  isoalkanes

- **Risk phrases:**
  36 Irritating to eyes.
  52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  65 Harmful: may cause lung damage if swallowed.

- **Safety phrases:**
  23 Do not breathe vapour.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  28 After contact with skin, wash immediately with plenty of soap and water.
Trade name: Polysol KWV

37/39 Wear suitable gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

National regulations

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations

Other information:
Product is for professional use only.
All components listed in EINECS (European Inventory of Existing Chemical Substances) or excepted from listing.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases
36/38 Irritating to eyes and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

Contact: Dr. Ralf Döring

* Data compared to the previous version altered.