1 Identification

- Product identifier
- Trade name: PureClin SAN
- Application of the substance / the mixture
  Dry-cleaning
  Detergent
- Details of the supplier of the safety data sheet
  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
- Information department:
  CHEM-TEL Inc.
  1305 North Florida Ave
  Tampa Florida 33602
- Emergency telephone number: 1-800-255-3924

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS05 Corrosion
    Eye Dam. 1  H318  Causes serious eye damage.
  - GHS07
    Skin Irrit. 2  H315  Causes skin irritation.
- Label elements
- GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  - GHS05
- Signal word  Danger
- Hazard-determining components of labeling:
  dioctyl sodium sulfosuccinate
  poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates
  isotridecanol, ethoxylated
  quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
- Hazard statements
  H315  Causes skin irritation.
  H318  Causes serious eye damage.
- Precautionary statements
  P280  Wear protective gloves / eye protection.

(Contd. on page 2)
Trade name: PureClin SAN

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P302+P352 If on skin: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

- Hazard description:
  - WHMIS classification
    D2B - Toxic material causing other toxic effects

- Classification system
- NFPA ratings (scale 0-4)
  - Health = 2
  - Fire = 1
  - Reactivity = 0

- HMIS-ratings (scale 0-4)
  - Health = *2
  - Fire = 1
  - Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>25 - 50%</th>
<th>&lt; 15%</th>
<th>&lt; 10%</th>
<th>&lt; 10%</th>
<th>&lt; 5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>68551-17-7</td>
<td>alkanes, C10-13-iso-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>577-11-7</td>
<td>dioctyl sodium sulfosuccinate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68511-37-5</td>
<td>poly(oxy-1,2-ethanediyl),.alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>69011-36-5</td>
<td>isotridecanol, ethoxylated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34590-94-8</td>
<td>dipropylene glycol monomethylether</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68424-85-1</td>
<td>quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Additional information For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- General information Immediately remove any clothing soiled by the product.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact
  - Immediately rinse with water.
  - If skin irritation continues, consult a doctor.
- After eye contact
  - Rinse opened eye for several minutes under running water. Then consult a doctor.
5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
  CO2, extinguishing 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 arising from the substance or mixture**
  Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
  Do not inhale explosion gases or combustion gases.
  Wear self-contained respiratory protective device.
- **Protective equipment:**
  Cool endangered receptacles with water spray.
- **Additional information**
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Do not breathe gases/ vapours.
  Avoid contact with eyes and skin.
  Keep away from ignition sources
- **Environmental precautions:**
  Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of the collected material according to regulations.
- **Reference to other sections**
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions 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.
- **Information about protection against explosions and fires:**
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
Trade name: PureClin SAN

- Conditions for safe storage, including any incompatibilities
  - 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:
    - Protect from heat and direct sunlight.
    - Store in cool, dry conditions in well sealed receptacles.
    - Store receptacle in a well ventilated area.
    - Protect from frost.
    - Time of storage: max. 24 month
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

- Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8 dipropylene glycol monomethylether</td>
</tr>
<tr>
<td><strong>PEL (USA)</strong></td>
</tr>
<tr>
<td><strong>REL (USA)</strong></td>
</tr>
<tr>
<td><strong>TLV (USA)</strong></td>
</tr>
<tr>
<td><strong>EL (Canada)</strong></td>
</tr>
<tr>
<td><strong>EV (Canada)</strong></td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment
- General protective and hygienic measures
  - The usual precautionary measures for handling chemicals should be followed.
  - Keep away from foodstuffs, beverages and feed.
  - Do not eat, drink, smoke or sniff while working.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
  - Do not inhale gases / fumes / aerosols.

Breathing equipment:
- Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

Protection of hands:
- Protective 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
**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:** Form: Fluid, Color: Light yellow, Odor: Product specific, Odour threshold: No further relevant information available.

- **pH-value (100 g/l) at 20 °C (68 °F):** 7

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

- **Flash point:** > 95 °C (> 203 °F) (ASTM D93 c.c.)

- **Flammability (solid, gaseous):** No further relevant information available.

- **Ignition temperature:** No further relevant information available.

- **Decomposition temperature:** No further relevant information available.

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

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

- **Explosion limits:**
  - Lower: No further relevant information available.
  - Upper: No further relevant information available.

- **Oxidizing properties:** No further relevant information available.

- **Vapor pressure:** No further relevant information available.

- **Density at 20 °C (68 °F):** ~ 0.91 g/cm³ (ISO 2811)

- **Relative density:** No further relevant information available.

- **Vapour density:** No further relevant information available.

- **Evaporation rate:** No further relevant information available.

- **Solubility in / Miscibility with Water:** Fully miscible

- **Partition coefficient (n-octanol/water):** No further relevant information available.

- **Viscosity:**
  - dynamic: No further relevant information available.
  - kinematic at 40 °C (104 °F): > 20.5 mm²/s

- **Other information:** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity:** No further relevant information available.
11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50/Dermal</th>
<th>LC50/Irritant</th>
<th>Rat</th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>68551-17-7 alkanes, C10-13-iso-</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 5 mg/l</td>
<td>(rat)</td>
<td>(rat)</td>
</tr>
<tr>
<td>577-11-7 dioctyl sodium sulfo succinate</td>
<td>&gt; 3000 mg/kg</td>
<td>&gt; 10000 mg/kg</td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>68511-37-5 poly(oxy-1,2-ethanediyl), alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
<td>(rat)</td>
<td></td>
</tr>
<tr>
<td>69011-36-5 isotridecanol, ethoxylated</td>
<td>&gt; 2000 mg/kg</td>
<td></td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>34590-94-8 dipropylene glycol monomethylether</td>
<td>&gt; 5000 mg/kg</td>
<td>9500 mg/kg</td>
<td>(rat)</td>
<td>(rabbit)</td>
</tr>
<tr>
<td>68424-85-1 quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>795 mg/kg</td>
<td></td>
<td>(rat)</td>
<td></td>
</tr>
</tbody>
</table>

- Effects on the skin:
  - Irritant to skin and mucous membranes.

- Effects on the eye:
  - Strong irritant with the danger of severe eye injury.

- Sensitization:
  - No sensitizing effects known.

- Additional toxicological information:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)
  - None of the ingredients is listed.

- NTP (National Toxicology Program)
  - None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)
  - None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
**13 Disposal considerations**

**Waste treatment methods**

**Recommendation:** Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

**14 Transport information**

- **UN-Number**: Void
- **DOT**: Void
- **ADR, IMDG, IATA**: UN3082

- **UN proper shipping name**
  - **DOT**: Void
  - **ADR**: 3082 Environmentally hazardous substances, liquid, n.o.s. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates)
  - **IMDG**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates), MARINE POLLUTANT
  - **IATA**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates)
## Transport hazard class(es)
- **DOT**
  - **Class**: Void
- **ADR**
  - **Class**: 9 (M6) Miscellaneous dangerous substances and articles
  - **Label**: 9
- **IMDG, IATA**
  - **Class**: 9 Miscellaneous dangerous substances and articles
  - **Label**: 9

## Packing group
- **DOT**
  - **ADR, IMDG, IATA**: Void

## Environmental hazards:
Product contains environmentally hazardous substances: poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-C12-14-alkylethers, phosphates

## Marine pollutant:
Symbol (fish and tree)

## Special marking (ADR):
Symbol (fish and tree)

## Special marking (IATA):
Symbol (fish and tree)

## Special precautions for user
**Warning**: Miscellaneous dangerous substances and articles

- **Danger code (Kemler)**: 90
- **EMS Number**: F-A,S-F

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

## Transport/Additional information:
- **ADR**
  - **Excepted quantities (EQ)**: Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml
  - **Limited quantities (LQ)**: 5L
    - Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml
Trade name: PureClin SAN

15 Regulatory information

- **Canadian substance lists**
  - **Canadian domestic substance list (DSL):**
    All ingredients are listed.
  - **Canadian ingredient disclosure list (limit 0.1%):**
    None of the ingredients is listed.
  - **Canadian ingredient disclosure list (limit 1%):**
    - 577-11-7 dioctyl sodium sulfosuccinate
    - 34590-94-8 dipropylene glycol monomethylether

- **Sara**
  - **Section 355 (extremely hazardous substances):**
    None of the ingredients is listed.
  - **Section 313 (specific toxic chemical listings):**
    None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
  All ingredients are listed.

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.
  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients is listed.

- **Cancerogenity categories**
  - **EPA (Environmental Protection Agency)**
    None of the ingredients is listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients is listed.
  - **MAK (German Maximum Workplace Concentration)**
    None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.

- **National regulations**
  - **Other regulations, limitations and prohibitive regulations**
  - **Please note:**
    The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements (Contd. on page 10)
are subject to change and may differ from one location to another. It is the buyer’s responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

**Other information:** The product has been designed for professional use only.

### 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.

- **Date of preparation / last revision** 07/10/2015 / 2
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - WHMIS: Workplace Hazardous Materials Information System (Canada)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- **Data compared to the previous version altered.**