1 Identification

- **Product identifier**
- **Trade name:** Earth Clean GE
- **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**
  - GHS08 Health hazard
  - Asp. Tox. 1  H304  May be fatal if swallowed and enters airways.
  - 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  GHS08

**Signal word** Danger

- **Hazard-determining components of labeling:**
  - dioctyl sodium sulfosuccinate
  - distillates (petroleum), hydrotreated light
  - 2,2’-(octadec-9-enylimino)bisethanol
  - poly(oxy-1,2-ethanediyl).\alpha.-\omega.-hydroxy-, mono-C12-14-alkylethers, phosphates

(Contd. on page 2)
Trade name: Earth Clean GE

1. Hazard statements
   H315 Causes skin irritation.
   H318 Causes serious eye damage.
   H304 May be fatal if swallowed and enters airways.

2. Precautionary statements
   P280 Wear protective gloves / eye protection.
   P301+P310 If swallowed: Immediately call a poison center/doctor.
   P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   P332+P313 If skin irritation occurs: Get medical advice/attention.
   P331 Do NOT induce vomiting.
   P302+P352 If on skin: Wash with plenty of soap and water.

3. Classification/information on ingredients
   Chemical characterization: Mixtures
   CAS-No. Components:  
   64742-47-8 distillates (petroleum), hydrotreated light 25 - 50%
   577-11-7 dioctyl sodium sulfosuccinate < 20%
   68511-37-5 poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates < 10%
   68439-50-9 alcohols, C12-14, ethoxylated < 10%
   25307-17-9 2,2'-(octadec-9-enylimino)bisethanol < 5%

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

4. First-aid measures
   Description of first aid measures
   After inhalation In case of unconsciousness place patient stably in side position for transportation.
   (Contd. on page 3)
Trade name: Earth Clean GE

- **After skin contact**
  - If skin irritation continues, consult a doctor.
  - Immediately wash with water and soap and rinse thoroughly.
  - Immediately rinse with water.

- **After eye contact**
  - Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; immediately call for medical help.

- **Information for doctor**
  - **Most important symptoms and effects, both acute and delayed**
    - No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**
    - No further relevant information available.

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**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**
  - **Protective equipment:**
    - Do not inhale explosion gases or combustion gases.
    - Wear self-contained respiratory protective device.
  - **Additional information**
    - Cool endangered receptacles with water spray.
    - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**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.

- **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.

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**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.
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>64742-47-8 distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>Skin</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 therefore to be checked prior to the application.

- Penetration time of glove material

  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Tightly sealed goggles.
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):** ~ 7.3
  - **Change in condition**
    - Melting point/Melting range: not applicable
    - Boiling point/Boiling range: undetermined
  - **Flash point:** > 95 °C (> 203 °F) (EN 22719)
  - **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:** Emulsifiable
  - **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.
- **Chemical stability**
  Stable under normal ambient conditions.
  No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
Trade name: Earth Clean GE

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      | Compound | Oral LD50 | Dermal LD50 |
      |----------|-----------|-------------|
      | 577-11-7 diocetyl sodium sulfosuccinate | > 3000 mg/kg (rat) | > 10000 mg/kg (rabbit) |
      | 68511-37-5 poly(oxy-1,2-ethanediyl), .alpha.-hydro,.omega.-hydroxy,. mono-C12-14-alkylethers, phosphates | Oral LD50 > 2000 mg/kg (rat) |
      | 68439-50-9 alcohols, C12-14, ethoxylated | Oral LD50 > 2000 mg/kg (rat) (OECD 201) |
      | 25307-17-9 2,2'-(octadec-9-enylimino)bisethanol | Oral LD50 1260 mg/kg (rat) (OECD 401) |
  - on the skin: Irritant to skin and mucous membranes.
  - 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.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
  - Additional ecological information:
    - General notes:
      Do not allow product to reach ground water, water course or sewage system.
      The surfactant(s) contained in this preparation complies(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.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
# 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

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th>Void</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT</strong></td>
<td>Void</td>
</tr>
<tr>
<td><strong>ADR, IMDG, IATA</strong></td>
<td>UN3082</td>
</tr>
<tr>
<td><strong>UN proper shipping name</strong></td>
<td>3082 Environmentally hazardous substances, liquid, n.o.s. (oleylaminethoxylate, poly(oxy-1,2-ethanediyl), \alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates)</td>
</tr>
<tr>
<td><strong>DOT</strong></td>
<td>Void</td>
</tr>
<tr>
<td><strong>ADR</strong></td>
<td>Void</td>
</tr>
<tr>
<td><strong>IMDG</strong></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oleylaminethoxylate, poly(oxy-1,2-ethanediyl), \alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates), MARINE POLLUTANT</td>
</tr>
<tr>
<td><strong>IATA</strong></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oleylaminethoxylate, poly(oxy-1,2-ethanediyl), \alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates)</td>
</tr>
</tbody>
</table>

- **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 |
### Trade name: Earth Clean GE

<table>
<thead>
<tr>
<th>· Packing group</th>
<th>Void</th>
</tr>
</thead>
<tbody>
<tr>
<td>· DOT</td>
<td></td>
</tr>
<tr>
<td>· ADR, IMDG, IATA</td>
<td>III</td>
</tr>
<tr>
<td>· Environmental hazards: Product contains environmentally hazardous substances: poly(oxy-1,2-ethanediyl), (\alpha)-hydro-(\omega)-hydroxy-, mono-C(<em>{12})-(</em>{14})-alkylethers, phosphates</td>
<td></td>
</tr>
<tr>
<td>· Marine pollutant: Symbol (fish and tree)</td>
<td></td>
</tr>
<tr>
<td>· Special marking (ADR): Symbol (fish and tree)</td>
<td></td>
</tr>
<tr>
<td>· Special marking (IATA): Symbol (fish and tree)</td>
<td></td>
</tr>
<tr>
<td>· Special precautions for user Warning: Miscellaneous dangerous substances and articles</td>
<td></td>
</tr>
<tr>
<td>· Danger code (Kemler): 90</td>
<td></td>
</tr>
<tr>
<td>· EMS Number: F-A,S-F</td>
<td></td>
</tr>
<tr>
<td>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.</td>
<td></td>
</tr>
<tr>
<td>· Transport/Additional information:</td>
<td></td>
</tr>
<tr>
<td>· ADR Code: E1</td>
<td></td>
</tr>
<tr>
<td>· Exempted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</td>
<td></td>
</tr>
<tr>
<td>· IMDG</td>
<td></td>
</tr>
<tr>
<td>· Limited quantities (LQ) 5L</td>
<td></td>
</tr>
<tr>
<td>· Exempted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</td>
<td></td>
</tr>
<tr>
<td>· UN &quot;Model Regulation&quot;: UN3082, Environmentally hazardous substances, liquid, n.o.s. (oleylaminethoxylate, poly(oxy-1,2-ethanediyl), (\alpha)-hydro-(\omega)-hydroxy-, mono-C(<em>{12})-(</em>{14})-alkylethers, phosphates), 9, III</td>
<td></td>
</tr>
</tbody>
</table>

### 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 |
| · 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. |
Trade name: Earth Clean GE

- 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 are subject to change and may differ from one location to another. It is the buyers 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
  Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- * Data compared to the previous version altered.