1 Identification

- **Product identifier**
  - **Trade name:** Novaclin Fresh
  - **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.
    - Flam. Liq. 4  H227  Combustible liquid.

- **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:**
    - isotridecanol, ethoxylated
  - **Hazard statements**
    - H227 Combustible liquid.
    - H315 Causes skin irritation.
    - H318 Causes serious eye damage.
  - **Precautionary statements**
    - P210  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Trade name: Novaclin Fresh

P280 Wear protective gloves / eye protection.
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)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS-ratings (scale 0-4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

 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>
</tr>
</thead>
<tbody>
<tr>
<td>69011-36-5</td>
<td>isotridecanol, ethoxylated 50 - 75%</td>
</tr>
<tr>
<td>157905-74-3</td>
<td>ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsatd. fatty acids, Me sulfates (salts) &lt; 15%</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>dipropylene glycol monomethylether &lt; 10%</td>
</tr>
<tr>
<td>67-63-0</td>
<td>2-propanol &lt; 2.5%</td>
</tr>
<tr>
<td>5989-27-5</td>
<td>(R)-p-mentha-1,8-diene &lt; 0.25%</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.

(Contd. on page 3)
Trade name: Novaclin Fresh

- 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.

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:
    Wear self-contained respiratory protective device.
    Do not inhale explosion gases or combustion gases.
- Additional information
  Cool endangered receptacles with water spray.
  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.
  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.

7 Handling and storage

- Handling
- Precautions for safe handling
  Keep away from heat and direct sunlight.
  Ensure good ventilation/exhaustion at the workplace.
  Avoid contact with eyes and skin.
- Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
- 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.
Protect from frost.
Time of storage: max. 24 month
Specific end use(s) Dry-cleaning

8 Exposure controls/personal protection

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

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8 dipropylene glycol monomethylether</td>
<td>Long-term value: 600 mg/m³, 100 ppm Skin</td>
<td>Short-term value: 900 mg/m³, 150 ppm</td>
<td>Long-term value: 609 mg/m³, 100 ppm Skin</td>
<td>Short-term value: 150 ppm</td>
<td>Short-term value: 910 mg/m³, 150 ppm Skin</td>
</tr>
<tr>
<td>67-63-0 2-propanol</td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td>Short-term value: 1225 mg/m³, 500 ppm</td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td>Short-term value: 400 ppm</td>
<td>Short-term value: 400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI (USA)</th>
<th>Medium: urine</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0 2-propanol</td>
<td>40 mg/L</td>
<td>Time: end of shift at end of workweek</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parameter: Acetone (background, nonspecific)</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
**Trade name: Novaclin Fresh**

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.

- **Body protection:**
  Protective work clothing.

---

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Color: Yellow
  - **Odor:**
    - Odour threshold: Product specific
  - **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

- **Flammability (solid, gaseous):**
  - Flash point: 65 °C (149 °F) (ASTM D93 c.c.)

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

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

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

- **Danger of explosion:**
  - Product does not present an explosion hazard.

- **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):** ~ 0.98 g/cm³ (ISO 2811)
- **Relative density**
  - No further relevant information available.
- **Vapour density**
  - No further relevant information available.
# Safety Data Sheet

**acc. to OSHA HCS**

Printing date 07/09/2015  
Reviewed on 07/09/2015

**Trade name:** Novaclin Fresh

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### 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**
  None if used as directed.

- **Conditions to avoid**
  No further relevant information available.

- **Incompatible materials:** Strong oxidizing agents

- **Hazardous decomposition products:** No dangerous decomposition products known

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### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>69011-36-5 isotridecanol, ethoxylated</td>
<td>&gt; 2000 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>34590-94-8 dipropylene glycol monomethylether</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>9500 mg/kg (rabbit)</td>
</tr>
<tr>
<td>67-63-0 2-propanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>5840 mg/kg (rat) (OECD 401)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>13900 mg/kg (rabbit) (OECD 402)</td>
<td></td>
</tr>
<tr>
<td>Inhalative LC50 (7h)</td>
<td>&gt; 25 mg/l (rat) (6h, OECD 403)</td>
<td></td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>&gt; 2000 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>5000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

- **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)
    - 67-63-0 2-propanol 3
    - 5989-27-5 (R)-p-mentha-1,8-diene 3

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(Contd. of page 5)
Trade name: **Novaclin Fresh**

- **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 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.
  - **Other adverse effects**: 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**
  - **DOT**: NA1993
  - **ADR, ADN, IMDG, IATA**: Void

- **UN proper shipping name**
  - **DOT**: COMBUSTIBLE LIQUID, N.O.S (Isopropanol)
  - **ADR, ADN, IMDG, IATA**: Void

- **Transport hazard class(es)**
  - **DOT**: Void
### 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%):**
    - 34590-94-8 dipropylene glycol monomethylether
    - 67-63-0 2-propanol

- **Sara**
  - **Section 355 (extremely hazardous substances):**
    None of the ingredients is listed.
  - **Section 313 (specific toxic chemical listings):**
    - 67-63-0 2-propanol

- **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.
Trade name: **Novaclin Fresh**

- **Cancerogenity categories**
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    67-63-0 2-propanol A4
  - 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 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** 07/09/2015 / 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
  - Flam. Liq. 4: Flammable liquids, Hazard Category 4
  - 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.