1 Identification

- Product identifier
  - Trade name: Flutec 75
- Application of the substance / the mixture
  - Dry-cleaning
  - Detergent
  - Pre-brushing agent

Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  - 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:
  - benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
  - alkanes, C10-13-iso-
  - isotridecanol, ethoxylated

(Contd. on page 2)
Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.

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.
P310 Immediately call a POISON CENTER/docotor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P331 Do NOT induce vomiting.

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>&lt; than %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 68411-30-3</td>
<td>benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>CAS: 68551-17-7</td>
<td>alkanes, C10-13-iso-</td>
<td>&lt; 15%</td>
</tr>
<tr>
<td>CAS: 69011-36-5</td>
<td>isotridecanol, ethoxylated</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>CAS: 34590-94-8</td>
<td>dipropylene glycol monomethylene</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>CAS: 67-63-0</td>
<td>2-propanol</td>
<td>&lt; 5%</td>
</tr>
</tbody>
</table>

Additional information For the wording of the listed hazard 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.
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
    No further relevant information available.
  - 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
    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.
  Avoid contact with eyes and skin.
  Ensure adequate ventilation
  Do not breathe gases/ vapours.
  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 7 for information on safe handling
  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.
    Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.

- 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
8 Exposure controls/personal protection

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

- Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
<th>Medium</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 34590-94-8 dipropylene glycol monomethylether</td>
<td>PEL (USA) Long-term value: 600 mg/m³, 100 ppm Skin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA) Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA) Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada) Short-term value: 150 ppm Long-term value: 100 ppm Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV (Canada) Short-term value: 910 mg/m³, 150 ppm Long-term value: 605 mg/m³, 100 ppm Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
<th>Medium</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 67-63-0 2-propanol</td>
<td>PEL (USA) Long-term value: 980 mg/m³, 400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA) Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA) Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada) Short-term value: 400 ppm Long-term value: 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV (Canada) Short-term value: 400 ppm Long-term value: 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
Trade name: Flutec 75

- 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: Light yellow
    Odor: Product specific
    Odor threshold: No further relevant information available.
  - pH-value (100 g/l) at 20 °C (68 °F): ~ 7.1
  - Change in condition
    Melting point/Melting range: not applicable
    Boiling point/Boiling range: undetermined
  - Flash point: 39 °C (102 °F) (ASTM D93 c.c.)
  - Flammability (solid, gaseous): No further relevant information available.
  - Ignition temperature:
    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): ~ 0.95 g/cm³ (ISO 2811)
  - Relative density: No further relevant information available.
  - Vapor density: No further relevant information available.
  - Evaporation rate: No further relevant information available.
Trade name: Flutec 75

\[ \text{(Contd. of page 5)} \]

- **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):** \(< 20.5 \text{ mm}^2/\text{s}\)

- **Other information:** The product does not sustain combustion.

\[ \text{10 Stability and reactivity} \]

- **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

\[ \text{11 Toxicological information} \]

- **Information on toxicological effects**

- **Acute toxicity:**

\[ \text{LD/LC50 values that are relevant for classification:} \]

| CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts |
|---|---|---|
| Oral LD50 | 200 - 2000 mg/kg (rat) |
| Dermal LD50 | \( > 2000 \text{ mg/kg (rat)} \) |

| CAS: 68551-17-7 alkanes, C10-13-iso- |
|---|---|---|
| Oral LD50 | \( > 5000 \text{ mg/kg (rat)} \) |
| Dermal LD50 | \( > 5000 \text{ mg/kg (rabbit)} \) |
| Inhalative LC50 | \( > 5 \text{ mg/l (rat)} \) |

| CAS: 34590-94-8 dipropylene glycol monomethylether |
|---|---|---|
| Oral LD50 | \( > 5000 \text{ mg/kg (rat)} \) |
| Dermal LD50 | 9500 mg/kg (rabbit) |
| Inhalative LC50 (7h) | \( > 500 \text{ mg/l (rat)} \) |

| CAS: 69011-36-5 isotridecanol, ethoxylated |
|---|---|---|
| Oral LD50 | \( > 2000 \text{ mg/kg (rat)} \) |
| Dermal LD50 | \( > 2000 \text{ mg/kg (rabbit)} \) |

| CAS: 67-63-0 2-propanol |
|---|---|---|
| Oral LD50 | 5840 mg/kg (rat) (OECD 401) |
| Dermal LD50 | 13900 mg/kg (rabbit) (OECD 402) |
| Inhalative LC50 | \( > 25 \text{ mg/l (rat) (6h, OECD 403)} \) |

- **on the skin:** Causes skin irritation.
- **on the eye:** Causes serious eye damage.
- **Sensitization:** No sensitizing effects known.

\[ \text{(Contd. on page 7)} \]
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.
  - 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, ADR, ADN, IMDG, IATA: Void
- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Void
- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA: Void
Trade name: Flutec 75

- Packing group
  - DOT, ADR, IMDG, IATA: Void
- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications. The product does not sustain combustion.
- UN "Model Regulation": 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%):
    - CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
    - CAS: 34590-94-8 dipropylene glycol monomethylether
    - CAS: 67-63-0 2-propanol
- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    - Section 313 (specific toxic chemical listings):
      - CAS: 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.
- New Jersey Right-to-Know List:
  - CAS: 34590-94-8 dipropylene glycol monomethylether
  - CAS: 67-63-0 2-propanol

(Contd. on page 9)
Trade name: **Flute 75**

<table>
<thead>
<tr>
<th>(Contd. of page 8)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>New Jersey Special Hazardous Substance List:</strong></td>
</tr>
<tr>
<td>CAS: 67-63-0</td>
</tr>
<tr>
<td><strong>Pennsylvania Right-to-Know List:</strong></td>
</tr>
<tr>
<td>CAS: 34590-94-8</td>
</tr>
<tr>
<td>CAS: 67-63-0</td>
</tr>
<tr>
<td><strong>Pennsylvania Special Hazardous Substance List:</strong></td>
</tr>
<tr>
<td>CAS: 67-63-0</td>
</tr>
<tr>
<td><strong>EPA (Environmental Protection Agency)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>TLV (Threshold Limit Value established by ACGIH)</strong></td>
</tr>
<tr>
<td>CAS: 67-63-0</td>
</tr>
<tr>
<td><strong>NIOSH-Ca (National Institute for Occupational Safety and Health)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

**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** 01/13/2016 / -

**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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEI: Biological Exposure Limit
- 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.