1 Identification

- **Product identifier**
- **Trade name:** Lacol
- **Application of the substance / the mixture**
  - Dry-cleaning
  - Spotting agent, stain remover
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - SEITZ GmbH
    - Gutenbergstrasse 1 - 3
    - 66830 Kriptel / Germany
    - Tel. + 49(0) 6192-9948-0
    - Fax + 49(0) 6192-9948-99
    - order@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**
  - | GHS02 Flame |
  - Flam. Liq. 3  H226  Flammable liquid and vapor.
  - | GHS05 Corrosion |
  - Eye Dam. 1  H318  Causes serious eye damage.
  - | GHS07 |
  - Skin Irrit. 2  H315  Causes skin irritation.
  - STOT SE 3  H336  May cause drowsiness or dizziness.

- **Label elements**
  - **GHS label elements**
    - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS02  GHS05  GHS07

- **Signal word** Danger
Trade name: Lacol

Hazard-determining components of labeling:
cyclohexanone
acetic acid n-butylester
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Hazard statements
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves / eye protection.
P261 Avoid breathing mist/vapours/spray.
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.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 123-86-4</td>
<td>acetic acid n-butylester</td>
<td>&lt; 25%</td>
</tr>
<tr>
<td>CAS: 34590-94-8</td>
<td>dipropylene glycol monomethylether</td>
<td>&lt; 25%</td>
</tr>
<tr>
<td>CAS: 108-94-1</td>
<td>cyclohexanone</td>
<td>&lt; 15%</td>
</tr>
<tr>
<td>CAS: 68411-30-3</td>
<td>benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</td>
<td>&lt; 15%</td>
</tr>
<tr>
<td>CAS: 108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>&lt; 10%</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
Remove casualties from exposure.
Keep unprotected persons away.
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.
In case of unconsciousness place patient stably in side position for transportation.

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: Lacol

- **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**
  - Skin irritation
  - Eye damage
  - Headache
  - Dizziness
  - Nausea
  - Dizziness
  - Unconsciousness
  - **Indication of any immediate medical attention and special treatment needed**
  - Symptomatic treatment

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**
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Avoid contact with eyes and skin.
  - Keep away from ignition sources
  - Ensure adequate ventilation
  - Do not breathe gases / vapours.
- **Environmental precautions:** Do not allow to enter sewers / surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite)
  - Send for recovery or disposal in suitable receptacles.
- **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.

(Contd. of page 2)

(Contd. on page 4)
Safety Data Sheet
acc. to OSHA HCS

Trade name: Lacol

7 Handling and storage

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

- Conditions for safe storage, including any incompatibilities
- Storage
  - Requirements to be met by storerooms and receptacles:
    - Store only in the original receptacle.
    - Prevent any seepage into the ground.
  - Information about storage in one common storage facility:
    - Store away from foodstuffs.
    - Store away from oxidizing agents.
    - Do not store together with alcalis (caustic solutions).
  - 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. 12 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:
  - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  - At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>CAS: 123-86-4 acetic acid n-butylester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 5)
**Safety Data Sheet**  
acc. to OSHA HCS  

**Trade name:** Lacol

### CAS: 34590-94-8 dipropylene glycol monomethylether

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 600 mg/m³, 100 ppm Skin</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Short-term value: 900 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 600 mg/m³, 100 ppm Skin</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Short-term value: 900 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 606 mg/m³, 100 ppm Skin</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 100 ppm Skin</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 910 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 605 mg/m³, 100 ppm Skin</td>
</tr>
</tbody>
</table>

### CAS: 108-94-1 cyclohexanone

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 200 mg/m³, 50 ppm Skin</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 100 mg/m³, 25 ppm Skin</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 50 mg/m³, 20 ppm Skin</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 50 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 20 ppm Skin</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 50 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 20 ppm Skin</td>
</tr>
</tbody>
</table>

### CAS: 108-65-6 2-methoxy-1-methylethyl acetate

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 50 ppm</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Short-term value: 75 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 50 ppm</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 270 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

### Ingredients with biological limit values:

**CAS: 108-94-1 cyclohexanone**

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (USA)</td>
<td>80 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift at end of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: 1.2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)</td>
</tr>
<tr>
<td></td>
<td>8 mg/L</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)</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. Immediately remove all soiled and contaminated clothing

(Contd. on page 6)
Trade name: Lacol

Do not eat, drink, smoke or sniff while working. 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:**
  Ensure good ventilation/exhaustion at the workplace. Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

- **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**
  PE/EVA/PE
  Butyl rubber, BR
  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:**
  Solvent resistant protective clothing

---

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**
  - **Form:** Fluid
  - **Color:** Yellow
  - **Odor:** Solvent-like
  - **Odor threshold:** No further relevant information available.

- **pH-value (100 g/l) at 20 °C (68 °F):** ~ 7.0

- **Change in condition**
  - **Melting point/Melting range:** undetermined
  - **Boiling point/Boiling range:** undetermined

- **Flash point:** 36 °C (97 °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.
Trade name: Lacol

Upper:
- Oxidizing properties: No further relevant information available.
- Vapor pressure: No further relevant information available.

Density at 20 °C (68 °F):
- Relative density: ~ 0.97 g/cm³ (ISO 2811)
- Vapor density: No further relevant information available.
- Evaporation rate: No further relevant information available.

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

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

Viscosity:
- Dynamic: No further relevant information available.
- Kinematic: No further relevant information available.
- 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: Forms flammable gases / fumes
- Conditions to avoid:
  Protect from heat and direct sunlight.
  Keep away from ignition sources
- Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: None if used as directed.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

<table>
<thead>
<tr>
<th>CAS: 123-86-4 acetic acid n-butylester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD₅₀</td>
</tr>
<tr>
<td>Dermal LD₅₀</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 34590-94-8 dipropylene glycol monomethylether</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD₅₀</td>
</tr>
<tr>
<td>Dermal LD₅₀</td>
</tr>
<tr>
<td>Inhalative LC₅₀ (7h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 108-94-1 cyclohexanone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD₅₀</td>
</tr>
<tr>
<td>Dermal LD₅₀</td>
</tr>
<tr>
<td>Inhalative LC₅₀ (4h)</td>
</tr>
</tbody>
</table>
### CAS: 68411-30-3 benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
</tr>
</tbody>
</table>

### CAS: 108-65-6 2-methoxy-1-methylethyl acetate

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50 &gt; 5000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50 &gt; 2000 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50 (4h) &gt; 5 mg/l (rat)</td>
</tr>
</tbody>
</table>

- **on the skin:** Causes skin irritation.
- **on the eye:** Causes serious eye damage.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

**Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**
  - CAS: 108-94-1 cyclohexanone

- **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**

  **CAS: 123-86-4 acetic acid n-butylester**

<table>
<thead>
<tr>
<th>EC50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic plants, algae) (Desmodesmus subspicatus; 72h)</td>
</tr>
<tr>
<td>647.7</td>
<td>(Aquatic invertebrates) (Daphnia magna; 48h)</td>
</tr>
<tr>
<td>44</td>
<td>(Fish) (Pimephales promelas; 96h; OECD 203)</td>
</tr>
<tr>
<td>18</td>
<td>(Fish) (Pimephales promelas; 96h; OECD 203)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOEC</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic plants, algae) (Desmodesmus subspicatus)</td>
</tr>
</tbody>
</table>

**CAS: 34590-94-8 dipropylene glycol monomethylether**

<table>
<thead>
<tr>
<th>EC50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic plants, algae) (96 h; Scenedesmus capricornutum)</td>
</tr>
<tr>
<td>&gt; 969</td>
<td>(Aquatic invertebrates) (48 h; Daphnia)</td>
</tr>
<tr>
<td>1010</td>
<td>(Aquatic invertebrates) (48 h; Daphnia)</td>
</tr>
<tr>
<td>10000</td>
<td>(Fish) (96 h; Pimephales promelas)</td>
</tr>
</tbody>
</table>

**CAS: 108-94-1 cyclohexanone**

<table>
<thead>
<tr>
<th>EC50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic invertebrates) (Daphnia magna; 24 h)</td>
</tr>
<tr>
<td>820</td>
<td>(Fish) (Pimephales promelas; 96 h)</td>
</tr>
<tr>
<td>527</td>
<td>(Fish) (Pimephales promelas; 96 h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EC5</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic plants, algae) (Scenedesmus quadricauda; 192 h)</td>
</tr>
</tbody>
</table>

**CAS: 108-65-6 2-methoxy-1-methylethyl acetate**

<table>
<thead>
<tr>
<th>EC50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mg/l</td>
<td>(Aquatic plants, algae) (72 h; Selenastrum capricornutum; OECD 201)</td>
</tr>
<tr>
<td>&gt; 1000</td>
<td>(Aquatic invertebrates) (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>134</td>
<td>(Fish) (96 h; Oncorhynchus mykiss; OECD 203)</td>
</tr>
<tr>
<td>47.5</td>
<td>(Fish) (14 d; Oryzias latipes; OECD 204)</td>
</tr>
</tbody>
</table>

(Contd. on page 9)
Safety Data Sheet
acc. to OSHA HCS

Printing date 10/17/2016
Reviewed on 10/17/2016

Trade name: Lacol

(Contd. of page 8)

- 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, even in small quantities.
    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, IMDG, IATA
  UN1993
- UN proper shipping name
  DOT
  Flammable liquids, n.o.s. (Butyl acetates, Cyclohexanone)
  ADR
  1993 Flammable liquids, n.o.s. (Butyl acetates, Cyclohexanone)
  IMDG, IATA
  FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, CYCLOHEXANONE)
- Transport hazard class(es)
  DOT
  Class
  3 Flammable liquids

(Contd. on page 10)
**Safety Data Sheet**

acc. to OSHA HCS

**Trade name:** Lacol

<table>
<thead>
<tr>
<th>Label</th>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="class3-flammable-liquids" alt="Flammable liquids" /></td>
</tr>
<tr>
<td>Class</td>
<td>3 (F1) Flammable liquids</td>
</tr>
<tr>
<td>Label</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packing group</th>
<th>DOT, ADR, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental hazards:</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Special precautions for user</th>
<th>Danger code (Kemler):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning: Flammable liquids</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EMS Number:</th>
<th>Stowage Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-E,S-E</td>
<td>A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

**Transport/Additional information:**

<table>
<thead>
<tr>
<th>DOT</th>
<th>Quantity limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On passenger aircraft/rail: 80 L</td>
</tr>
<tr>
<td></td>
<td>On cargo aircraft only: 220 L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADR</th>
<th>Exected quantities (EQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Code: E1</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 1000 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
<th>Limited quantities (LQ)</th>
<th>Excepted quantities (EQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5L</td>
<td>Code: E1</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per inner packaging: 30 ml</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 1000 ml</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN &quot;Model Regulation&quot;:</th>
<th>UN 1993 FLAMMABLE LIQUIDS, N.O.S. (BUTYL ACETATES, CYCLOHEXANONE), 3, III</th>
</tr>
</thead>
</table>

(Contd. on page 11)
Safety Data Sheet  
acc. to OSHA HCS

Printing date 10/17/2016  
Reviewed on 10/17/2016

Trade name: Lacol

(Contd. of page 10)

15 Regulatory information

- Canadian substance lists
  - Canadian domestic substance list (DSL):
    All ingredients are listed.
  - Canadian ingredient disclosure list (limit 0.1%):
    CAS: 108-94-1  Cyclohexanone
  - Canadian ingredient disclosure list (limit 1%):
    CAS: 123-86-4  Acetic acid n-butyester
    CAS: 34590-94-8  Dipropylene glycol monomethylether
    CAS: 68411-30-3  Benzene sulfonic acid, C10-13-alkyl derivs., sodium salts

- 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.

- New Jersey Right-to-Know List:
  - CAS: 123-86-4  Acetic acid n-butyester
  - CAS: 34590-94-8  Dipropylene glycol monomethylether
  - CAS: 108-94-1  Cyclohexanone

- New Jersey Special Hazardous Substance List:
  - CAS: 123-86-4  Acetic acid n-butyester

- Pennsylvania Right-to-Know List:
  - CAS: 123-86-4  Acetic acid n-butyester
  - CAS: 34590-94-8  Dipropylene glycol monomethylether
  - CAS: 108-94-1  Cyclohexanone

- Pennsylvania Special Hazardous Substance List:
  - CAS: 123-86-4  Acetic acid n-butyester
  - CAS: 108-94-1  Cyclohexanone

- EPA (Environmental Protection Agency)
  None of the ingredients is listed.

(Contd. on page 12)
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 10/17/2016 / 3

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: U.S. 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
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
* Data compared to the previous version altered.