1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY

1.1 CHEMICAL PRODUCT LICISOL LFD

1.2 APPLICATION TEXTILE AUXILIARY

1.3 COMPANY IDENTIFICATION I.C.I Pakistan Ltd.

1.4 EMERGENCY TELEPHONE 111-100-200

2. COMPOSITION/ INFORMATION ON INGREDIENTS

2.1 CHEMICAL DESCRIPTION SURFACTANT BLEND CONTAINING AN ORGANIC SOLVENT

2.2 HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>C.P.L CLASS</th>
<th>CAS No.</th>
<th>EINECS NO</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>N.A</td>
<td>NA</td>
<td>N.A</td>
<td>&gt;10</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

THIS PRODUCT CONTAINS NO HAZARDOUS MATERIAL
4. **FIRST AID MEASURES**

4.1 EYE CONTACT  
FLUSH EYE LIBERALLY WITH WATER IF IRRITATION PERSIST, OBTAIN MEDICAL ATTENTION.

4.2 SKIN CONTACT  
WASH SKIN WITH WATER, USING SOAP

4.3 INGESTION  
TREAT SYMPTOMATICALLY

4.4 INHALATION  
NOT APPLICABLE

5. **FIRE EXTINGUISHING MEDIA**

5.1 EXTINGUISHING MEDIA  
WATER, MIST, CO2, DRY POWDER

5.2 FIRE AND EXPLOSION HAZARDS  
THE PRODUCT IS NOT FLAMMABLE

5.3 PROTECTIVE MEASURES  
NOT APPLICABLE

6. **ACCIDENTAL RELEASE MEASURES**

6.1 PERSONAL PRECAUTIONS  
NONE

6.2 ENVIRONMENTAL PRECAUTIONS  
NONE

6.3 CLEANING UP  
ABSORB ONTO SAND OR SAW DUST AND SWEEP UP

7. **STORAGE AND HANDLING**

7.1 STORAGE  
STORE AT ROOM TEMPERATURE

7.2 RECOMMENDED SHELF LIFE  
12 MONTHS

7.3 HANDLING  
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE PRACTISES AND USUAL SAFETY MEASURES

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1 OCCUPATIONAL EXPOSURE LIMITS  
CHEMICAL 50 PPM TLV (ACGIH)

8.2 ENGINEERING MEASURES  
NONE

8.3 PERSONAL PROTECTIVE EQUIPMENT
RESPIRATORY PROTECTION \hspace{2cm} NOT REQUIRED
HAND PROTECTION \hspace{2cm} WEAR GLOVES
EYE PROTECTION \hspace{2cm} WEAR GOGGLES
SKIN PROTECTION \hspace{2cm} AVOID CONTACT WITH SKIN

9. PHYSICAL/ CHEMICAL PROPERTIES

9.1 APPEARANCE \hspace{2cm} PALE YELLOW LIQUID
9.2 ODOUR \hspace{2cm} PRODUCT SPECIFIC
9.3 PH \hspace{2cm} 7.5–9.5
9.4 VISCOSITY \hspace{2cm} N.A
9.5 FREEZING POINT \hspace{2cm} NOT ASSESSED
9.6 FREEZE THAW RECOVERY \hspace{2cm} NOT ASSESSED
9.7 BOILING POINT \hspace{2cm} NOT ASSESSED
9.8 MELTING POINT \hspace{2cm} NOT ASSESSED
9.9 FLASH POINT \hspace{2cm} NOT ASSESSED
9.10 AUTOFLAMMABILITY \hspace{2cm} NOT APPLICABLE
9.11 EXPLOSIVE PROPERTIES \hspace{2cm} NOT APPLICABLE
9.12 VAPOUR PRESSURE \hspace{2cm} NOT ASSESSED
9.13 VAPOUR DENSITY \hspace{2cm} NOT ASSESSED
9.14 RELATIVE DENSITY \hspace{2cm} NOT ASSESSED
9.15 SOLUBILITY \hspace{2cm} SOLUBLE IN WATER.
9.16 PARTITION COEFFICIENT \hspace{2cm} NOT ASSESSED

10. STABILITY AND REACTIVITY

10.1 STABILITY \hspace{2cm} STABLE UNDER NORMAL WORKING CONDITIONS.
10.2 CONDITIONS TO AVOID
NONE KNOWN

10.3 MATERIALS TO AVOID
NONE KNOWN

10.4 RECOMMENDED MATERIALS FOR EQUIPMENT
COMPATIBLE WITH MOST MATERIALS

10.5 HAZARDOUS DECOMPOSITION PRODUCTS
NONE KNOWN

11. TOXICOLOGICAL INFORMATION

11.1 SHORT TERM EFFECTS

EYE CONTACT IRRITANT TO EYES
SKIN CONTACT IRRITANT TO SKIN
INGESTION VERY LOW TOXICITY
INHALATION CONTAINS TRICHLOROETHYLENE EXCESSIVE VAPOURS MAY CAUSE GIDDINESS & UNCONSCIOUSNESS

11.2 CHRONIC EFFECTS PROLONGED CONTACT WITH SKIN MAY LEAD TO DERMATITIS

12. ECOLOGICAL INFORMATION

12.1 LC 50 N.A.
12.2 BOD N.A.
12.3 COD N.A.
12.4 OTHER N.A.

13. DISPOSAL CONSIDERATIONS
DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS i.e. TIPPING

14. TRANSPORT INFORMATION

14.1 PACKAGING 200 & 50 Kg PACKING.
14.2 FREIGHT CLASSIFICATIONS NOT APPLICABLE
UN NUMBER NOT APPLICABLE
ADR NUMBER NOT APPLICABLE
15. **REGULATORY INFORMATION**

15.1 **C.P. L CLASSIFICATION**

- NOT APPLICABLE

**HAZARD PICTOGRAM**

- Xi (IRRITANT)

**RISK PHRASES**

- R-20, R-21, R-36, R-38

**SAFETY PHRASES**

- S-23, S-24, S-25, S-26, S-28, S-51

15.2 **OTHER LEGISLATION**

- NOT APPLICABLE

16. **OTHER INFORMATION**

- **WATER POLLUTING CLASS (WGK)**

  - 2

- **ISSUE NUMBER**

  - 4  DATE FEB 2016