SAFETY DATA SHEET
LUBE XLS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME       LUBE XLS
APPLICATION         Lubricant
SUPPLIER            M-I Drilling Fluids UK Ltd,
Pocra Quay,
Footdee,
Aberdeen. AB11 5DQ
T -44 (0)1224-584336
F -44 (0)1224-576119
EMERGENCY TELEPHONE +44(0)208 762 8322

2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>FATTY ACIDS, TALL-OIL</td>
<td>263-107-3</td>
<td>61790-12-3</td>
<td>10-30%</td>
<td>-</td>
</tr>
<tr>
<td>Polypropylene glycol methyl ether</td>
<td>37286-64-9</td>
<td>30-60%</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>RAPESEED OIL</td>
<td>232-299-0</td>
<td>8002-13-9</td>
<td>30-60%</td>
<td>-</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS
The data shown is in accordance with the latest EC Directives.

3 HAZARDS IDENTIFICATION
Not regarded as a health or environmental hazard under current legislation.

4 FIRST-AID MEASURES

INHALATION
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION
Rinse mouth thoroughly. Get medical attention if any discomfort continues.

SKIN CONTACT
Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

EYE CONTACT
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for several minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Alcohol resistant foam. Water spray, dry powder or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES
Avoid water in straight hose stream; will scatter and spread fire.

UNUSUAL FIRE & EXPLOSION HAZARDS
No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS
By heating and fire, harmful vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS
Stop leak if possible without risk. Contain and recover liquid if possible. Absorb in vermiculite, dry sand or earth and place into containers. Dike far ahead of larger spills for later disposal.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS
Keep in original container. Store in tightly closed original container in a cool, dry well-ventilated place.

8 EXPOSURE CONTROLS/PERSOAL PROTECTION

INGREDIENT COMMENTS
No exposure limits noted for ingredient(s).

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Chemical respirator with organic vapour cartridge.

HAND PROTECTION
Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Butyl rubber.

EYE PROTECTION
Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION
Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES
Wash contaminated clothing before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Liquid

COLOUR
Amber

ODOUR
Characteristic

SOLUBILITY
Slightly dispersible in water.

MELTING POINT (°C)
< - 10°C

RELATIVE DENSITY
0.91-0.95

VAPOUR DENSITY (air=1)
>1

VAPOUR PRESSURE
< 1 mbar

38

pH-VALUE, DILUTED SOLUTION
6 - 7

FLASH POINT (°C)
> 130°C P/M Pensky-Martens.

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

HAZARDOUS POLYMERISATION
Will not polymerise.
MATERIALS TO AVOID
Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS
Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

INHALATION
May cause irritation to the respiratory system.

INGESTION
May cause gastric distress, nausea and vomiting if ingested.

SKIN CONTACT
Prolonged and frequent contact may cause redness and irritation.

EYE CONTACT
Spray and vapour in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
Contact M-I Swaco's QHSE Department for ecological information.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

RISK PHRASES
NC Not classified.

SAFETY PHRASES
NC Not classified.

UK REGULATORY REFERENCES
The Control of Substances Hazardous to Health Regulations Chemicals (Hazard Information & Packaging) Regulations.

EU DIRECTIVES

GUIDANCE NOTES
Workplace Exposure Limits EH40.

16 OTHER INFORMATION

INFORMATION SOURCES

REVISION COMMENTS
Revised by Silvia Smart. The following sections have been revised: 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

ISSUED BY
Dr. Kirsty Walker

REVISED BY
Dr. Kirsty Walker

REV. NO./REPL. SDS GENERATED 3

RISK PHRASES IN FULL
NC Not classified.
DISCLAIMER

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