



Product Information:

# LIQUISAFE

## FIRE RESISTANT HYDRAULIC FLUID

### Description

Liquisafe is a high quality fire resistant hydraulic fluid blended with high and low molecular weight polyalkylene glycols in a stable water solution. The formulation includes special chemical additives that inhibit the formation of rust in the system, and provide anti-wear properties equal to that of mineral hydraulic oils. This product is compatible with all seals normally found in systems designed for mineral oil, including nitrile, viton, neoprene and silicone rubbers.

The excellent shear stability and high viscosity index make Liquisafe ideal for hydraulic systems subject to long term extremes of temperature and operating conditions. The low pour point of this product gives complete pump protection and smooth operation, even when starting and running equipment at temperatures below  $-30^{\circ}\text{C}$ . Liquisafe does not produce toxic fumes if it should accidentally come in contact with hot metals or flames.

### Features

- Superior fire resistance
- Optimised corrosion and wear protection
- Low pour point, good shear stability, high viscosity index
- Compatible with standard packings and seals

### Applications

Recommended for all hydraulic systems, operating in conditions where the use of a mineral oil would present a fire hazard. Typical uses include: steel mill equipment, casting shop machinery, furnace door closers, die casting machines and underground equipment.

*Water based hydraulic oils are not compatible with mineral oils and the hydraulic oils and the changeover from one to another should be undertaken with care.*

*Further information on material and elastomer compatibility, system design, change over procedure and recommendations when changing to Liquisafe can be requested through our Technical Service Department.*

### Performance Levels

International Fluid Classification **HFC**  
British Coal No. 570/1981.

### Physical Characteristics

Appearance	Red liquid
Relative Density at 15.6 °C	1.078
Kinematic Viscosity @ 20 °C (cSt)	77.0
Kinematic Viscosity @ 40 °C (cSt)	39.2
Kinematic Viscosity @ 60 °C (cSt)	21.0
Viscosity Index	>150
Pour Point (°C)	-60
Water Content (%)	>35%
pH @ 25 °C	9.20
Coefficient of expansion °C <sup>-1</sup> (K <sup>-1</sup> )	7.0 x 10 <sup>-4</sup>
°F	3.9 x 10 <sup>-4</sup>
Specific Heat Capacity (kJ/Kg.K)	3.15
Thermal Conductivity (W/m.K)	0.43

Figures based on average production values.

Part No.s: LSA025, LSA0205

(TDS Liquisafe – 290216 Issue 5)

