

# TECHNICAL DATA SHEET

## HOUGHTO-SAFE® NL1 WATER-GLYCOL FIRE RESISTANT HYDRAULIC FLUID

HOUGHTO-SAFE® NL1 is a water Glycol fire resistant hydraulic fluid that has been designed to meet the demanding conditions seen in direct acting riser tensioner systems. HOUGHTO-SAFE® NL1 has been formulated to minimize such residues and maintain a stable pH over a 5 year period.

### Applications

HOUGHTO-SAFE® NL1 is designed to provide high lubrication, corrosion inhibition and long life, particularly in the demanding conditions where direct acting tensioners are used to provide a constant tension to the riser.

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

### Benefits

- Passes Def Stan 91-110 Annex D for compression ignition at a 40:1 ratio
- Very high lubricity validated in long-term OEM cylinder tests
- Excellent pH stability for 5 years plus in demanding environments
- Compatible with most commonly used elastomers
- Avoid PU and FKM/FPM
- Cefas D OCNS Rating
- Corrosion resistant in liquid and vapor phase
- Can be used as a preservation fluid for up to 5 years
- Compliant with Global environmental regulations

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Fluorescent Pink Transparent Liquid	
Odor	Mild	
Specific Gravity	1.08	
pH	10	
Kinematic Viscosity		
at 40°C	40.0	cSt
at 20°C	85.0	
at 0°C	270.0	
at -20°C	800.0"	

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