**Safety Data Sheet: Signal Safe FR Hydraulic 46**

**Revision Date: January 2nd 2022**

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| SECTION 1 PRODUCT AND COMPANY IDENTIFICATION |

**PRODUCT**

**Product Name:** Signal Safe FR Hydraulic 46

**Intended Use:** Fire Resistant Hydraulic Fluid

**COMPANY IDENTIFICATION**

**Supplier:** Beacon Lubricants

P.O Box 754

Edinboro, PA 16412

**Emergency Telephone:** 1-877-734-7334 – Beacon Lubricants, Inc.  
**Emergency Telephone:** 1-800-424-9300 (24 hours) – Chemtrec approval

**Website:** www.beaconlubricants.com

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| SECTION 2                                                HAZARDS IDENTIFICATION |

This material is hazardous according to regulatory guidelines (M)SDS Section 15)  
  
**Other hazard information:   
  
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 oral

Health, specific target organ toxicity – repeated exposure, 2

Health, skin corrosion/irritation, 2

Health, serious eye damage/eye irritation

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H302- Harmful if swallowed

H373- May cause damage to organs through prolonged or repeated exposure

H315- Causes skin irritation

H318- Causes serious eye damage

GHS Precautionary Statements:

P260 – Do not breathe dust/fume/gas/mist/vapors/spray

P302+P350 – IF ON SKIN: Gently wash with soap and water

H305+351+338- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301+310- IF SWALLOWED: Immediately call a poison center or doctor/physician.  
  
**Note:**  This material should not be used for any other purpose than the indented use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

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| SECTION 3                                COMPOSITION / INFORMATION ON INGREDIENTS |

Chemical Name Percentage CAS#

Diethylene glycol 30.0-35.0 111-46-6

Water 45.0-50.00 7732-18-5

Polyalkylene glycol 15.0-20.0 Proprietary

Decanoic acid 0.5-30 334-48-5

Dimeethylethanolamine 0.5-1.0 108-01-0

N,N-Diethylmoneothanolamine0.5-1.0 100-37-8

2-Amino-2-Methyl-1-Propanol 0.5-1.0 124-68-5

\*All Concentrations are percent by weight unless material is a gas. Gas concentrations are in the percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is a considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

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| SECTION 4                                                FIRST AID MEASURES |

**INHALATION**  
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.   
  
**SKIN CONTACT**  
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms form high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extend of injury.   
  
**EYE CONTACT**  
Flush thoroughly with water. If irritation occurs, get medical assistance.   
  
**INGESTION**  
First aid is normally not required. Seek medical attention if discomfort occurs.

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| SECTION 5                                                     FIRE FIGHTING MEASURES |

**EXTINGUISHING MEDIA   
Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.   
  
**Inappropriate Extinguishing Media:** Straight streams of water   
  
**FIRE FIGHTING**  
**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water supply to cool fire exposed surfaces and to protect personnel.   
  
**Hazardous Combustion Products:** Aldehydes, sulfur oxides, Oxides of carbon, Smoke, Fume, Incomplete combustion products.

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| SECTION 6                                                           ACCIDENTAL RELEASE MEASURES |

**NOTIFICATION PROCEDURES**  
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.  
  
**PROTECTIVE MEASURES**  
Avoid contact with spilled material. See Section 5 for firefighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Service. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.   
  
For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respiration with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.   
  
**SPILL MANAGEMENT**  
**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.   
**Water Spill:**  Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.   
  
Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.   
  
**ENVIRONMENTAL PRECAUTIONS**  
Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

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| SECTION 7                                                HANDLING AND STORAGE |

**HANDLING**  
Avoid contact with eyes, skin, or clothing. Do not swallow. Keep away from sources of ignition. Handle with care and avoid spillage on the floor (slippage)  
  
**STORAGE:**Store in original container, shelf life: 2 years

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| SECTION 8                                    EXPOSURE CONTROLS / PERSONAL PROTECTION |

**ENGINEERING CONTROLS**: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94)

Personal Protective Equipment: Use of safety glasses and gloves are recommended.

Exposure Guidelines:

Diehylene glycol

OSHA TWA: 10 mg/m^3, 50 ppm

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| SECTION 9                                                PHYSICAL AND CHEMICAL PROPERTIES |

**Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the supplier for additional information.**   
  
**GENERAL INFORMATION**  
**Appearance: Transparent Red**

**Physical State: Liquid**

**Viscosity: 46.0 cSt at 40°C**

**Boiling Point: 100C @ 760mm Hg**

**pH: 9.5**

**Solubility: Completely soluble in water**

**Freezing/Melting pt: -42°C**

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| SECTION 10                                                STABILITY AND REACTIVITY |

**Stability: product is stable under normal conditions**

**Materials to avoid: Avoid contact with : strong acids, strong bases, and strong oxidizers.**

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| SECTION 11                                                   TOXICOLOGICAL INFORMATION |

Repeated skin contact with this product may cause dermatitis or an acne. No test data available on product. No component is listed as a carcinogen, mutagen, or teratogen. LD50/LC50 – No data available.

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| SECTION 12                                                ECOLOGICAL INFORMATION |

Avoid exposing to the environment, no specific aquatic data available.

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| SECTION 13                                                 DISPOSAL CONSIDERATIONS |

Disposal recommendations based on material as supplied. Disposal must be in accordance current applicable laws and regulations, and material characteristics at time of disposal.  
  
**DISPOSAL RECOMMENDATIONS**  
Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.   
  
**REGULATORY DISPOSAL INFORMATION**  
RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.   
  
**Empty Container Warning:** Empty Container Warning (where applicable): Empty containers may contain reside and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJUST OR DEATH.

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| SECTION 14                                                TRANSPORT INFORMATION |

**LAND (DOT):** Not Regulated for Land Transport  
  
**LAND (TDG):** Not Regulated for Land Transport  
  
**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code  
  
Marine Pollutant: No  
  
**AIR (IATA):** Not Regulated for Air Transport

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| SECTION 15                                                    REGULATORY INFORMATION |

This material or all of its components are listed on the inventory of existing chemical substances under the toxic substances control act.

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| SECTION 16                                                        OTHER INFORMATION |

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:  
Updates made in accordance with implementations of GHS requirements.   
  
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