**Safety Data Sheet: Signal Quench Oil 100**

**Revision Date: January 2nd 2022**

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| SECTION 1                                              PRODUCT AND COMPANY IDENTIFICATION |

**PRODUCT**

**Product Name:** Signal Quench Oil 100

**Recommended Use:** Metalworking quenching oil

**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 |

**Hazard Classification**

**Not classified**

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** not applicable

**Precautionary Statement:** not applicable

Other hazards which do not result in GHS classification: None identified.

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| SECTION 3                                      COMPOSITION / INFORMATION ON INGREDIENTS |

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| **Chemical Name** | **CAS Number** | **Percent by Weight** |
| Mineral oil | 64742-56-9 | 70% |
| Mineral Oil | 64742-53-6 | 20% |
| Sodium Sulfonate | Confidential | 1-5% |
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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 exposed person to fresh air if adverse effects are observed.   
  
**SKIN CONTACT**  
Wash with soap and water. Get medical attention if symptoms occur.  
  
**EYE CONTACT**  
Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens.    
  
**INGESTION**  
Treat symptomatically. Get medical attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See Section 11

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically

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| SECTION 5                                                     FIRE FIGHTING MEASURES |

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** CO2, Dry chemical or Foam. Water can be used to cool and protectexposed material.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:**

When heated, hazardous gases may be released including: sulfur dioxide. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Recommend wearing self-contained breathing apparatus.

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| SECTION 6                                                           ACCIDENTAL RELEASE MEASURES |

**Personal precautions, protective equipment and emergency procedures:** No data available

**Methods and material for containment and cleaning up:** Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

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| SECTION 7                                                HANDLING AND STORAGE |

**Precautions for safe handling:** Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use grounding and bonding connection when transferring material. In case of spills, beware of slippery floors and surfaces. This material is not a static accumulator but use proper grounding procedures. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.

**Maximum Handling Temperature:** Not determined

**Conditions for safe storage, including any incompatibilities:** Store away from incompatible materials. See section 10 for incompatible materials.

**Maximum Storage Temperature:** Not determined

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| SECTION 8                                        EXPOSURE CONTROLS / PERSONAL PROTECTION |

**Exposure limits/standards for material that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/3 – ACGIH TLV (inhalable fraction), 5 mg/m3 – OSHA PEL

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

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| Chemical Name | Type | Exposure Limits | Source |
| Mineral oil- inhalable fraction | TWA | 5 mg/m3 | ACGIH |
| Mineral oil- mist | REL | 5 mg/m3 | NIOSH |
| Mineral Oil- mist | STEL | 10 mg/m3 | NIOSH |
| Mineral Oil- mist | PEL | 5 mg/m3 | OSHA |
| Mineral Oil- inhalable | TWA | 5 mg/m3 | ACGIH |
| Mineral Oil- mist | REL | 5 mg/m3 | NIOSH |
| Mineral Oil- mist | STEL | 10 mg/m3 | NOISH |
| Mineral Oil- mist | PEL | 5 mg/m3 | OSHA |
| Mineral Oil- inhalable fraction | TWA | 5 mg/m3 | ACGIH |
| Mineral Oil- mist | REL | 5 mg/m3 | NIOSH |
| Mineral Oil- mist | STEL | 10 mg/m3 | NOISH |
| Mineral Oil- mist | PEL | 5 mg/m3 | OSHA |
| Mineral Oil- inhalable fraction | TWA | 5 mg/m3 | ACGIH |
| Mineral Oil- mist | REL | 5 mg/m3 | NIOSH |
| Mineral Oil- mist | STEL | 10 mg/m3 | NIOSH |
| Mineral Oil | Ceil\_Time | 1,800 mg/m3 | NIOSH |
| Mineral Oil | REL | 350 mg/m3 | NIOSH |
| Mineral Oil- mist | PEL | 5 mg/m3 | OSHA |
| Mineral Oil- inhalable fraction | TWA | 5 mg/m3 | ACGIH |
| Mineral Oil- mist | REL | 5 mg/m3 | NIOSH |
| Mineral Oil- mist | STEL | 10 mg/m3 | NIOSH |
| Mineral Oil | Ciel\_Time | 1,800 mg/m3 | NIOSH |
| Mineral Oil | REL | 350 mg/m3 | NIOSH |
| Mineral Oil- mist | PEL | 5 mg/m3 | OSHA |

**Appropriate engineering controls:** No special requirements under ordinary conditions of use and with adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required

**Eye/face protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin Protection**

**Hand Protection:** Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.

**Other:** No data available

**Respiratory Protection:** Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program complaint with all applicable regulations must be followed whenever workplace conditions require the use of a respiratory. Use respirator with an organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

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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**

**Physical State:** Liquid

**Color:** Light Amber

**Odor:** Slight petroleum

**Odor Threshold:** N/D

**pH:** N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

**Flash point:** 502°F (256°C) (Pensky-Martens Closed Cup)

**Evaporation rate:** (nBuAc=I): NiL

**Vapor pressure:** <0.1 kPa @ 104°F/40°C

**Vapor density (Air=1):** >1

**Relative density:** 0.855@ 60°F (15.6°C)

**Solubility in water:** Insoluble in water

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| SECTION 10                                                STABILITY AND REACTIVITY |

**REACTIVITY:** No data available   
  
**STABILITY:** Material is stable under normal conditions  
  
**CONDITIONS TO AVOID:** Do not expose to excessive heat, ignition sources, or oxidizing materials.  
  
**MATERIALS TO AVOID:** Strong oxidizers. Halogens and halogenated compounds.  
  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or combustion may generate smoke, carbon, monoxide, carbon dioxide, and other products of incomplete combustion.   
  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

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| SECTION 11                                                   TOXICOLOGICAL INFORMATION |

**Information on likely routes of exposure**

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity**

**Oral**

Product: ATEmix > 10.000 mg/kg. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Dermal**

Product: Not classified for acute toxicity based on available data.

**Inhalation**

Product: Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:**

Product: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Prolonged or repeated contact may cause irritation.

Remarks: Not classified as a primary skin irritant.

**Serious Eye Damage/Eye Irritation:**

Product: Remarks: Not classified as a primary eye irritant.

**Respiratory sensitization:**

No data available

**Skin sensitization:**

Mineral oil Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer.

Mineral oil Classification: Not a skin sensitizer. (Read across)

Mineral oil Classification: Not a skin sensitizer. (Read across)

Mineral oil Classification: Not a skin sensitizer. (Read across)

Mineral oil Classification: Not a skin sensitizer. (Read across)

**Specific Target Organ Toxicity - Single Exposure:**

**Product:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Mineral oil**: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard:**

Mineral oil Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Mineral oil Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Chronic Effects**

**Carcinogenicity:**

Product: This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

Mineral oil: All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered carcinogenic.

Mineral oil: All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered carcinogenic.

Sodium sulfonate: Skin sensitizer (Literature) Category 1B

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

Dermal: Target Organ(s): Liver, Kidney

Inhalation: Target Organ(s): Kidney, Liver

Oral: Target Organ(s): Liver, Kidney

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| SECTION 12                                                ECOLOGICAL INFORMATION |

**Ecotoxicity**

Fish

Mineral oil LC 50 (Fathead Minnow, 4 d): > 100 mg/l

**Aquatic Invertebrates**

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): > 10 mg/l

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

Sodium sulfonate EC 50 (Water flea (Daphnia magna), 2 d): > 100 mg/l

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 2 d): > 1,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

Mineral oil EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

**Toxicity to Aquatic Plants**

Mineral oil EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100

mg/l

Sodium sulfonate EC 50 (Green algae (Selenastrum capricornutum), 3 d): 600 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

Mineral oil EC 50 (Sludge, 0.1 d): > 10,000 mg/l

**Persistence and Degradability**

**Biodegradation**

Mineral oil OECD TG 301 B, 31 %, 28 d, Not readily degradable.

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Inherent Sludge, 30 %, 28 d, Not readily degradable.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

**Partition Coefficient n-octanol / water (log Kow)**

**Mobility:**

No data available

**Other Adverse Effects:** No data available.

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| SECTION 13                                                 DISPOSAL CONSIDERATIONS |

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:** Container packaging may exhibit hazards.

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| SECTION 14                                                TRANSPORT INFORMATION |

**DOT**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

None known.

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| SECTION 15                                                    REGULATORY INFORMATION |

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Chemical Identity Reportable quantity

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

None known.

**SARA 302 Extremely Hazardous Substance**

**SARA 304 Emergency Release Notification**

**SARA 311/312 Hazardous Chemical**

**SARA 313 (TRI Reporting)**

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**Inventory Status**

Australia (AICS)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

All components are in compliance with the Canadian Environmental Protection Act and are present on the

Domestic Substances List.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACh)

Korea (ECL)

All components are in compliance in Korea.

New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear

Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in

Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All components of this material are on the US TSCA Inventory.

The information that was used to confirm the compliance status of this product may deviate from the chemical

information shown in Section 3.

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| SECTION 16                                                        OTHER INFORMATION |

**HMIS Hazard ID:**

Health: 0  
Flammability: 1

Physical Hazards: 0

N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

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