**Safety Data Sheet: Signal Volt 60**

**Revision Date: January 2nd 2022**

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| SECTION 1                                           PRODUCT AND COMPANY IDENTIFICATION |

**PRODUCT**

**Product Name:** Signal Volt 60

**Product Description:** Electrical insulating oils

**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)

**CLASSIFICATION:**

Aspiration toxicant: Category 1

**LABEL:**

**Pictogram:**



**Signal Word:**Danger

**Hazard Statements:**

H304: May be fatal if swallowed and enters airways.

**Precautionary Statements:**

P273: Avoid release to the environment. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting. P391: Collect spillage. P405: Store locked up. P501: Dispose of contents and container in accordance with local regulations.

**Other hazard information:**

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):**None as defined under 29 CFR 1900. 1200.  
  
**PHYSICAL / CHEMICAL HAZARDS**  
No significant hazards  
**HEALTH HAZARDS**  
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be irritating to the eyes, nose, throat, and lungs.   
  
**ENVIRONMENTAL HAZARDS**  
Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.    
  
**NFPA Hazard ID:** Health:    1 Flammability:     1 Reactivity:     0  
**HMIS Hazard  ID:** Health:   1\* Flammability:    1 Reactivity:     0  
  
**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 |

This material is defined as a mixture.   
  
**Hazardous Substance(s) or Complex Substance(s) required for disclosure**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **CAS#** | **Concentration\*** | **GHS Hazard Codes** |
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | 1 - < 5 % | H400(M factor 1), H410(M factor 1) |
| HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM) | 64742-53-6 | 90 - < 100% | H304 |

\*All Concentrations are percent by weight unless material is a gas. Gas concentration 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, sulfer oxides, Oxides of carbon, Smoke, Fume, Incomplete combustion products.   
  
**FLAMMABILITY PROPERTIES**  
**Flash Point [Method]:** >145°C (293°F) [ASTEM D-92]  
**Flammable Limits (Approximate volume % in air)**: LEL: N/D UEL: N/D  
**Autoignition Temperature:** >315C (599°F)

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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 judgement of the emergency responders.   
  
**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 breathing mists or vapors. Avoid contact with skin. Avoid contact with eyes. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and ground may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).   
  
**Static Accumulator:** This material is a static accumulator.   
  
**STORAGE:**The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabeled containers. Keep away from incompatible materials.

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| SECTION 8                                  EXPOSURE CONTROLS / PERSONAL PROTECTION |

**EXPOSURE LIMIT VALUES**

**Exposure limits/standards (Note: Exposure limits are not additive)**

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| --- | --- | --- | --- | --- | --- | --- |
| Substance Name | Form | Limit/Standard | | | Note | Source |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Inhalable fraction and vapor | TWA | 5 mg/m3 |  | N/A | ACGIH |
| HYDROTREATED LIGHT NAPHTHENIC DISTALLATE (PETROLEUM) | Mist. | TWA | 5 mg/m3 |  | N/A | OSHA Z1 |
| HYDROTREATED LIGHT NAPHTHENIC DISTALLATE (PETROLEUM) | Inhalable fraction | TWA | 5 mg/m3 |  | N/A | ACGIH |
| HYDROTREATED LIGHT NAPHTHENIC DISTALLATE (PETROLEUM) | Mist. | TWA | 5 mg/m3 |  | N/A | ACGIH |

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

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

No biological limits allocated.

**ENGINEERING CONTROLS**  
  
The level of protection and toes of controls necessary will vary depending upon potential exposure conditions.   
Control measures to consider:  
No special requirements under ordinary conditions of use and with adequate  ventilation.   
  
**PERSONAL PROTECTION**  
  
Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information of the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.   
  
**Respiratory Protection:**  If engineering controls do not maintain airborne contaminant concentrations at a levee which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:  
No special requirements under ordinary conditions of use and with adequate ventilation.   
  
For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.   
  
**Hand Protection:**Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacture for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:  
No protection is ordinarily required under normal conditions of use.   
  
**Eye Protection:**If contact is likely, safety glasses with side shields are recommended.   
  
**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.   
  
**Specific 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 and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.   
  
**Environmental Controls**  
Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. 

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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:** Pale Yellow  
**Odor:** Characteristic   
**Odor Threshold:** N/D  
  
**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**  
**Relative Density:** 6.8  
**Flammability (Solid, Gas):** N/A  
**Flash Point [Method]:** >145°C (285°F) [ASTM D-92]   
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D  
**Autoignition Temperature:** N/A  
**Boiling Point / Range:** 530-623  
**Decomposition Temperature**: N/A   
**Vapor Density (Air = 1):** N/A   
**Vapor Pressure:** < 0.013 kPa (0.1 mm Hg) at 20 °C [ESTIMATED]  
**Evaporation Rate (n-butyl acetate = 1):** N/D   
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/A  
**Solubility in Water:**  Negligible  
**Viscosity:** 3.9-4.5 @40.0°C  
**Oxidizing Properties:** See Hazards Identification Section.   
  
**OTHER INFORMATION**  
**Freezing Point:** N/D  
**Melting Point:** -55° (-67°F)  
**Pour Point:** < 40°C

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| SECTION 10                                                STABILITY AND REACTIVITY |

**REACTIVITY:** See sub-sections below.  
  
**STABILITY:** Material is stable under normal conditions  
  
**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.  
  
**MATERIALS TO AVOID:** Strong oxidizers  
  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient   
temperatures.  
  
**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

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| SECTION 11                                                   TOXICOLOGICAL INFORMATION |

**INFORMATION ON TOXICOLOGICAL EFFECTS**

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| --- | --- |
| **Hazard Class** | **Conclusion / Remarks** |
| **Inhalation** |  |
| Acute Toxicity: No end point data for material. | Minimally Toxic. Based on the assessment of the components. |
| Irritation: No end point data for material. | Negligible hazard at ambient/normal handling temperatures. |
| **Ingestion** |  |
| Acute Toxicity: No end point date for material | Minimally Toxic. Based on assessment of components. |
| **Skin** |  |
| Acute Toxicity: No end point date for material | Minimally Toxic. Based on assessment of components. |
| Skin Corrosion/Irritation: No end point data for material. | Negligible irritation to skin at ambient temperatures. Based on assessment of the components. |
| **Eye** |  |
| Serious Eye Damage/Irritation: No end point data for material | May cause mild, short-lasting discomfort to eyes. Based on assessment of components. |
| **Sensitization** |  |
| Respiratory Sensitization: No end point data for material | Not expected to be a respiratory sensitizer |
| Skin Sensitization: No end point date for material | Not expected to be a skin sensitizer. Based on assessment of the components. |
| **Aspiration:** Date available | Not expected to be an aspiration hazard. Based on phsico-chemical properties of the materials. |
| **Germ Cell Mutagenicity:** No end point data for material | Not expected to be a germ cell mutagen. Based on assessment of the components. |
| **Carcinogenicity:** No end point data for material | Not expected to cause cancer. Based on assessment of the components. |
| **Reproductive Toxicity:** No end point data for material | Not expected to be a reproductive toxicant. Based on the assessment of the components |
| **Lactation:** No end point data for material | Not expected to cause harm to breast-fed children |
| **Specific Target Organ Toxicity (STOT)** |  |
| Single Exposure: No end point data for material | Not expected to cause organ damage from a single exposure |
| Repeated Exposure: No end point data for material | Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components. |

**TOXICITY FOR SUBSTANCES**

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| **NAME** | **ACUTE TOXICITY** |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Oral Lethality: LD50 0.89 g/kg (Rat) |

**OTHER INFORMATION**

**For the product itself:**

An ingredient or ingredients that are classified as a skin sensitizer. Oil Mist (highly refined oils): Animals exposed to high concentrations of mist developed oil retention, inflammation, and oil granulomas in the respiratory tract. Oils exposed to high temperatures, cracking conditions, or mixing with tramp / used oils may introduce polycyclic aromatic compounds or microbial contaminants that could result in cancer or severe respiratory hazards.

**Contains:**Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.   
  
**The following ingredients are cited on the lists below: None.**  
  
--REGULATORY LISTS SEARCHED--  
1 = NTP CARC 3 = IARC 1 5 = IARC 2B  
2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC

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| SECTION 12                                                ECOLOGICAL INFORMATION |

The information given is based on data available for the material, the components of the material, and similar materials.   
  
**ECOTOXICITY**   
Material — expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**MOBILITY**

Base oil component – Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.   
  
**PERSISTENCE AND DEGRADABILITY  
Biodegradation:**  
Base Oil Components— Expected to be inherently biodegradable

**BIOACCUMULATION POTENTIAL**

**Base oil component** – Has the potential to bio accumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

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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.   
  
**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 |

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OHSA HazCom 2012, 29, CFR 1910. 1200.  
  
**Complies with the following national/regional chemical inventory requirements:** AICS, DSL, ENCS, IECSC, KECI, PICCS, TSCA

**EPCRA SECTION 302:** This material contains no extremely hazards substances.

**CWA / OPA:** This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterway/sewers which lead to surface water, must be reported to the Nation Response Center at 800-424-8802

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** Immediate Health  
  
**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**The following ingredients are cited on the lists below:**

|  |  |  |
| --- | --- | --- |
| **Chemical Name** | **CAS Number** | **List Citations** |
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | 1,13,16,17,18 |
| HYDRO TREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM) | 64742-53-6 | 1,4,13,17,18 |
|  |  |  |

--REGULATORY LISTS SEARCHED—

1 = ACGIH ALL 6 = TSCA 5a2 11 = CA P65 REPRO 16 = MN RTK  
2 = ACGIH A1   7 = TSCA 5e 12 = CA RTK 17 = NJ RTK  
3 = ACGIH A2              8 = TSCA 6 13 = IL RTK 18 = PA RTK  
4 = OSHA Z 9 = TSCA 12b 14 = LA RTK 19 = RI RTK  
5 = TSCA 4 10 = CA P6 CARC 15 = MI 293   
  
Code Key: CARC=Carcinogen; REPRO=Reproductive

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| SECTION 16                                                        OTHER INFORMATION |

N/D = Not determined, N/A = Not applicable   
  
**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**  
Updates made in accordance with implementations of GHS requirements.   
The information and recommendations contained herein are, to the best of Beacon Lubricants knowledge and belief, accurate and reliable as of the date issued. You can contact Beacon Lubricants to insure that this document is the most current available from Beacon Lubricants. The information and recommendations are offered for the user’s consideration and examination. It is the user’s responsibility to satisfy itself that the product is suitable for intended use. If the buyer repackages this product, it is the user’s responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alternation of this document is strictly prohibited. Expect to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.