



Product Name: **Alithicon B-51 Synthetic Bearing Lubricant**  
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# SAFETY DATA SHEET

## SECTION 1

## PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** Alithicon B-51 Synthetic Bearing Lubricant  
**Product Description:** Synthetic Bearing Lubricant

### COMPANY IDENTIFICATION

**Supplier:** Alithicon Lubricants Co., Inc.  
P.O. Box 5225  
104 Baldwin Drive  
Albany, Ga 31706  
229-883-9515

<b>24 Hour Health Emergency</b>	<b>229-344-1788</b>
<b>Transportation Emergency Phone</b>	<b>229-344-1788</b>
<b>Product Technical Information</b>	<b>229-883-9515</b>
<b>Supplier General Contact</b>	<b>229-883-9515</b>

## SECTION 2

## HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

**Other hazard information:**

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1900.1200.

**Physical/CHEMICAL HAZARDS:** NO Significant hazards.

**HEALTH HAZARDS:** High pressure injection under skin may cause serious damage.

<b>NFPA Hazard ID:</b>	<b>Health:0</b>	<b>Flammability:1</b>	<b>Reactivity:0</b>
<b>HMIS Hazard ID:</b>	<b>Health:0</b>	<b>Flammability:1</b>	<b>Reactivity:0</b>

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1.

## SECTION 3

## COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

**No Hazardous Substance (s) or Complex Substance (s) required for disclosure.**



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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 from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent 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.

## SECTION 5

## FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

**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 spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Smoke, Oxides of carbon, Incomplete combustion products, Smoke, Fume.

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >121°C (482°F) [ASTM D-93]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D



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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 Advice. 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.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Cover 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.

### ENVIRONMENTAL PRECAUTIONS

**Large Spills:** Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7

## HANDLING AND STORAGE

### HANDLING

Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** N/A

### STORAGE

Do not store in open or unlabeled containers.



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## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

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

No biological limits allocated.

### ENGINEERING CONTROLS

The level of protection and types 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 on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

#### **Respiratory Protection:**

No protection is ordinarily required under normal conditions of use and with adequate ventilation.

**Hand Protection:** No protection is ordinarily required under normal conditions of use.

**Eye Protection:** No protection is ordinarily required under normal conditions of use.

#### **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:	Paste
Form:	Paste
Color:	Blue
Odor:	Mild
Odor Threshold:	N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION:

Relative Density (15°C)	0.82	[In-house method]
Flammability (solid Gas)	790°F	--
Flash Point [Method]	N/A	--
Flammability Limits (Approximate volume % in air)	LEL: N/D	UEL: N/D
Auto ignition Temperature	N/D	--
Boiling Point/Range	N/D	--
Decomposition Temperature	N/D	--
Vapor Density (Air = 1)	N/D	--
Vapor Pressure	<0.013 kPa (0.1mm Hg) at 20°	[In-house method]
Evaporation Rate (n-butyl acetate = 1)	N/D	--
pH:	N/D	--
Log Pow (n-Octanol/Water Partition Coefficient)	N/D	--
Solubility in Water	Negligible	--
Oxidizing Properties	See Hazards Section	--
<b>Other Information:</b>		
Freezing Point	N/D	--
Melting Point	N/D	--
Pour Point	N/D	--

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**SECTION 10**

**STABILITY AND REACTIVITY**

**REACTIVITY:** See Sub-section 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.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION 11**

**TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

<b>Hazardous Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: (Rat) 4hour(s) LC50 > 5200 mg/m <sup>3</sup> Aerosol)	Minimally Toxic. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 401 423
<b>Ingestion</b>	
Acute Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 401 423
<b>Skin</b>	
Acute Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline. 404
Skin Corrosion/Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline. 405
<b>Eye</b>	
Serious Eye Damage/Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline. 405
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.

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Hazardous Class	Conclusion / Remarks
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physio-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> Data available.	Not expected to be a germ cell mutagen. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 471 473 474 476
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer/
<b>Reproductive Toxicity:</b> Data available.	Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Test (s) equivalent or similar to OCED guideline. 415
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
<b>Single Exposure:</b> No end point for data material.	Not expected to cause organ damage from a single exposure.
<b>Repeated Exposure:</b> Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline. 407 408

**Other Information**

**For the product itself:** This synthetic paste: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

**The following ingredients are cited on the lists below:** None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC  
 2 = NTP SUS

3 = IARC 1  
 4 = IARC 2A

5 = IARC 2B  
 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 -- Not expected to be harmful to aquatic organisms.

### PERSISTENCE AND DEGRADABILITY

#### Biodegradation:

Material -- Expected to be inherently biodegradable

## SECTION 13

## DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with 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, corrosivity 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 residue 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 PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.**





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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  
**SEA (MARPOL 73/78 Convention – Annex II)**  
**Product Name:** Synthetic Paste  
**Ship Type:** 2  
**Pollution category:** Y  
**AIR (IATA):** Not Regulated for Air Transport

**SECTION 15** **REGULATORY INFORMATION**

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** IECSC, KECI, TSCA, ENCS, AICS, PICCS, DSL.

**EPCRA:** This material contains no extremely hazardous substances.

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** None.

**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 list below:** None.

--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 P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive; N/D = Not determined, N/A = Not applicable



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## SECTION 16

## OTHER INFORMATION

### **THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Updates made in accordance with implementation of GHS requirements.

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