



# MATERIAL SAFETY DATA SHEET

## LUBE-A-PIN

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>TRADE NAME</b>	LUBE-A-PIN
<b>Product number</b>	LAB022 - Cartridge LAB023 - Pail LAB024 - Keg LAB025 - Drum
<b>PRODUCT USE</b>	Lubricating Grease
<b>SUPPLIER</b>	LAB, LLC P.O. Box 20798 Indianapolis, IN 46220 Tel: (317) 578-3961 Fax: (317) 577-0637 Email: sales@lubeaboom.com
<b>CONTACT PERSON</b>	Harley Wilson
<b>Date of last issue</b>	2011-04-14

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	Mixture**(2)	50-70 %
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	Proprietary	15-30 %
*MOLYBDENUM SULFIDE (MoS <sub>2</sub> )	1317-33-5	3-7 %
*BORIC ACID (H <sub>3</sub> BO <sub>3</sub> ), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	13840-55-6	1-5 %
*BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.	68584-22-5	1-5%

\* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

#### COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.  
Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially. \*\*(2) The base oil for this product can be a mixture of any of the following highly refined petroleum streams:  
CAS 64741-88-4; CAS 64741-89-5; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1.  
Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics. All petroleum base oils contained in this product meet the IP 346 criteria of less than 3

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percent PAH's and are not considered carcinogens by IARC, NTP or OSHA.

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### 3. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

<b>INHALATION</b>	Heating can generate vapors that may cause respiratory irritation, nausea and headaches.
<b>INGESTION</b>	May cause stomach pain or vomiting.
<b>SKIN</b>	Prolonged or repeated contact leads to drying of skin.
<b>EYES</b>	May be slightly irritating to eyes.
<b>SENSITIZATION</b>	No known information.
<b>CARCINOGENICITY</b>	IARC-1: The agent is carcinogenic to humans with sufficient evidence in humans. Silica - crystalline quartz, CAS # 14808-60-7, <1ppm.
<b>TERATOGENICITY</b>	No known information.
<b>MUTAGENICITY</b>	No known information.
<b>HEALTH WARNINGS</b>	INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Slightly irritating. INGESTION. Can cause stomach ache and vomiting.
<b>ROUTE OF ENTRY</b>	Inhalation. Skin and/or eye contact. Ingestion.

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### 4. FIRST AID MEASURES

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<b>INHALATION</b>	Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
<b>EYES</b>	Rinse with water. Contact physician if discomfort continues.
<b>SKIN</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.  INJECTION INJURY WARNING: 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.
<b>INGESTION</b>	DO NOT INDUCE VOMITING! Get medical attention immediately!

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### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	246 (475°F) Cd OC (Cleveland open cup).
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	N/D
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	N/D

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<b>EXTINGUISHING MEDIA</b>	Water spray, fog or mist. Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Acrid smoke/fumes. Oxides of: Carbon. Sulfur.
<b>PROTECTIVE MEASURES IN CASE OF FIRE</b>	Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
<b>SPILL CLEAN-UP PROCEDURES</b>	Provide good ventilation. Use appropriate protective clothing. Carefully collect spilled material in closed containers and leave for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways. Rinse area with water.

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## 7. HANDLING AND STORAGE

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<b>HANDLING PRECAUTIONS</b>	Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Containers should be kept tightly closed. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.
<b>STORAGE PRECAUTIONS</b>	Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.
<b>STORAGE CRITERIA</b>	Chemical storage.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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COMPONENT	STD	TWA	STEL	TWA	STEL
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	OSHA			5 mg/m3 (oil mist)	
	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp)	as CaCO3
	ACGIH	1 mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3
MOLYBDENUM SULFIDE (MoS2)	OSHA			N/E	
	ACGIH	3 mg/m3 (resp) as Mo		10 mg/m3 (ihl) as Mo	

### PROTECTIVE EQUIPMENT

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<b>ENGINEERING CONTROLS</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION</b>	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
<b>RESPIRATORS</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES</b>	Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.
<b>EYE PROTECTION</b>	Use eye protection.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>HYGIENIC WORK PRACTICES</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE/PHYSICAL STATE</b>	Grease.		
<b>COLOR</b>	Grey.		
<b>ODOR</b>	Mild (or faint). Petroleum.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>DENSITY</b>	0.96	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 5		
<b>VAPOR PRESSURE</b>	< 0.1 mmHg	<b>Temperature (°C)</b>	20 (68°F)
<b>EVAPORATION RATE</b>	< 1	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		

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## 10. STABILITY AND REACTIVITY

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<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid contact with acids and oxidizing substances.
<b>HAZARDOUS POLYMERIZATION</b>	Will not polymerize.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Oxides of: Carbon. Sulfur.

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## 11. TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION** No experimental toxicological data on the preparation as such is available.

<b>COMPONENT</b>	<b>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED</b>
<b>TOXICOLOGICAL DATA</b>	Carcinogenicity. IP 346 <3%
<b>TOXIC DOSE - LD 50</b>	> 5000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	No Information Available (NIA).
<b>COMPONENT</b>	<b>BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 &amp; 12040-58-3)</b>
<b>TOXICOLOGICAL DATA</b>	Reproductive effects. WHMIS (Canada) D2A - R62 R63
	Reproductive effects. TDLo 3 generations Oral. Rat. 154 mg/kg/day EPA
	Reproductive effects. TDLo 2 generations Oral. Mouse. 150 mg/kg/day
<b>TOXIC DOSE - LD 50</b>	2660-5140 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	0.89-21.1 mg/l
<b>GENOTOXICITY</b>	Boric acid causes lower fetal body weights in pregnant rats at 78 mg/kg/day and increased incidences of rib and brain abnormalities at higher doses.
<b>REPRODUCTION TOXICITY</b>	Adverse reproductive effects have occurred in experimental animals. Boric acid was found to induce testicular atrophy and effects on spermatogenesis in rats and mice in various studies. Effects occurred at dose-levels (27mg/kg) without general toxicity.
<b>COMPONENT</b>	<b>BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.</b>

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## 12. ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION** No data on possible environmental effects have been found.

<b>COMPONENT</b>	<b>LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED</b>
<b>COMPONENT</b>	<b>BORIC ACID (H3BO3), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 &amp; 12040-58-3)</b>
<b>COMPONENT</b>	<b>BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.</b>

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## 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHODS** Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

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## 14. TRANSPORT INFORMATION

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<b>DOT HAZARD CLASS</b>	Not regulated.
<b>IDENTIFICATION No.</b>	N/A
<b>SEA TRANSPORT NOTES</b>	Not regulated per IMDG.
<b>AIR TRANSPORT NOTES</b>	Not regulated per IATA.

## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	No	No	No
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	No	No	No
MOLYBDENUM SULFIDE (MoS <sub>2</sub> )	No	No	No
BORIC ACID (H <sub>3</sub> BO <sub>3</sub> ), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	No	No	No
BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.	No	No	No

### CLEAN AIR ACT

**SARA HAZARD CATEGORIES** None

### US STATE REGULATIONS

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
BORIC ACID (H <sub>3</sub> BO <sub>3</sub> ), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	No	No	No	No	No	No	No
BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.	No	No	No	No	No	No	No
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	No	No	No	No	No	Yes	No
MOLYBDENUM SULFIDE (MoS <sub>2</sub> )						Yes	

**STATE REGULATORY STATUS** CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:  
Toluene, CAS # 108-88-3, <1ppm.  
1-Naphthylamine, CAS # 134-32-7, <1ppm  
Crystalline silica, cancer hazard, CAS# 14808-60-7, <1ppm

### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**LABEL(S) FOR SUPPLY**


**CONTROLLED PRODUCT CLASSIFICATION**

D2B - Irritating and/or Chronically Toxic Materials

**Risk phrases**

R-22 Harmful if swallowed.  
 R-36/37/38 Irritating to eyes, respiratory system and skin.  
 R-43 May cause sensitization by skin contact.  
 R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Xi, Xn

**GLOBAL INVENTORIES**

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
OVERBASED CALCIUM SULFONATE COMPLEX THICKENER	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
MOLYBDENUM SULFIDE (MoS <sub>2</sub> )	DSL	Yes	EINECS	Yes	PRTR1	Yes	Yes	Yes
BORIC ACID (H <sub>3</sub> BO <sub>3</sub> ), CALCIUM SALT (ALTERNATE CASRNs 13701-64-9 & 12040-58-3)	DSL	Yes	EINECS	Yes	1-637	Yes	Yes	Yes
BENZENESULFONIC ACID, C10-16-ALKYL DERIVS.	DSL	Yes	EINECS	Yes	3-1907	Yes	Yes	Yes

**USA (TSCA)**

All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

**CANADA (DSL)**

All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

**EUROPE (EINECS/ELINCS/NLP)**

All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.

**JAPAN (ENCS)**

All components in this product are listed on the Japan Inventory of Existing and New Chemical Substances (ENCS) or are exempt from ENCS requirements.

**PHILIPPINES (PICCS)**

All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.

**AUSTRALIA (AICS)**

All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.

**KOREA (ECL)**

All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.

**CHINA (IECS)**

All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.

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**16. OTHER INFORMATION**


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**NFPA-HMIS HAZARD RATING**

<b>HEALTH</b>	Irritation, minor residual injury (1) - HMIS/NFPA
<b>FLAMMABILITY</b>	Burns only if pre-heated (1) - HMIS/NFPA
<b>REACTIVITY</b>	Normally Stable (0) - HMIS/NFPA
<b>NPCA HMIS HAZARD INDEX</b>	Slight: Slightly Toxic - May cause slight irritation (1).
<b>PERSONAL PROTECTION INDEX</b>	B - Safety Eyewear and Gloves
<b>NPCA HMIS FLAMMABILITY INDEX</b>	Burns only if pre-heated (1).
<b>Tariff Code (Schedule B)</b>	2710.19.3750 Lubricating greases, with or without additives.
<b>PREPARED BY</b>	Regulatory Department, Chemtool Inc.
<b>Replacement of MSDS generated</b>	2008-10-15
<b>DATE</b>	2011-04-14
<b>DISCLAIMER</b>	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, The Timken Corporation makes no warranty with respect thereto and disclaims all liability from reliance therein.
<b>* Information revised since previous MSDS version</b>	
<b>PRINTING DATE:</b>	2011-04-14