# LubriSilk High Performance Greases

Date: 12-June-2014

	9	
SECTION	1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifier	
	Trade name	LubriSilk High Performance Grease, Grades #3, #2, #1, #0 & #00
	Company productcode(s) REACH Registration number	<b>500110 - 500115, 500302 &amp; 500303</b> 01-2119486683-25-0000
1.2	Relevant idnetified uses of the substance or mixture and uses advised against	
	The uses of the chemical Classification of economic activities (NACE) Use categories (UC62) The chemical can be used by the general public The chemical is used by the general public only	LUBRICATING GREASE 50.Maintenance/repair of Machinery, Motors, Firearms etc 35 Lubricants and additives Yes No
1.3	Details of the supplier of the safety data sheet	
	Manufacturer, importer, other undertaking Manufacturer Advanced Lubrication Technology Inc. 3000 SW 42nd Ave. Palm City, Florida USA 888-258-9190 tf@altboron.com	
1.4	Emergency telephone number	
	USA 411 Infotrac: 1-800-535-5053	Europe 112 Infortrac internationl 1-352-323-3500
SECTION	2: HAZARDS IDENTIFICATION	
2.1	Classification of the substance or mixture	
	1272/2008 (CLP)	In accordance with current regulations (1272/2008 CLP), this substance has not been classified as dangerous. Classification according to 67/548/EEC – 1999/45/ED: no classification.
	67/548/EEC-1999/45/EC	No Classification
2.2	Label elements – THIS PRODUCT DOES MEET T HAZARDOUS COMPONENT CAS # 10043-35-3; F	
NA	PICTOGRAM NOT REQUIRED	
NA	Signal word:	
NA	Hazard statements:	
	Precautionary statements	

P201 Obtain special instructions before use

Date: 12-June-2014

## LubriSilk High Performance Greases

P202	Do not handle until all safety precautions have been read and understood
P281	Use of personal protective equipment as required
P308+P313	If exposed or concerned: Get medical advice/attention
P405	Store locked up
EUH210	Safety data sheet availble on request.

2.3	Other hazards:
	NONE KNOWN

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

-	CAS/EC number and the egistration number	Name of the ingredient	Concentration	Classification
1	0043-35-3 <mark>/</mark> 11113-50-1	BORIC ACID	=< 5.4%. Does not meet the harzardous threshold level for this component.	Repr. 1B, H360FD (Repr. Cat. 2; R60-61)

SECTION	4: FIRST AID MEASURES		
4.1	Description of first air measures		
	Inhalation Skin contact	Remove the victim from further exposure. Those providing assistance must avoid exposure to themselves 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. 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.	
	Eye contact Ingestion	Flush thoroughly with water. If irritation occurs, seek medical assistance. First aid is normally not required. Seek medical attention if discomfort occurs.	
4.2	Most important symptoms and effects, both acute and delayed		
	Inhalation	Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respireatory tract.	
	Skin contact	Practically non toxic if absorbed thru the skin. Substance may cause slight irritation	
	Eye contact Ingestion	Non-irritating to the eyes. Practically non-toxic if ingested. Harmful or fatal if swallowed. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage.	
	Other	May damage fertility or an unborn child.	
4.3	Indication of any immediate medical attention and special treatment needed	Injection of synthetic oils under skin requires immediate medical attention.	

MATERIAL SAFETY DATA SHEET LubriSilk High Performance Greases

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Use water fog, foam, dry chemical or carbon dioxide to extinguish flames. Do not use straight streams of water.

#### 5.2 Special hazards arising from the substance or mixture

NO SPECIAL HAZARDS

#### 5.3 Advice for firefighters

Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters 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.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Use appropriate personal protection. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

#### 6.2 Environmental precautions

Large spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas. If the product pollutes lakes, watercourses or drainage systems, inform the local authorities.

# 6.3 Methods and material for containment and cleaning up Land spill Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent. Water spill Stop leak if you can do so 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.

#### 6.4 Reference to other sections

Personal protection equipment	Section 8.2
Disposal	Section 13

#### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Keep away from heat, ignition sources and oxidizing agents. 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 earthing procedures.

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard. 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.

LubriSilk High Performance Greases

7.2	Conditions for safe storage, including any inco	ompatibilities	
	Do not store in open or unlabelled containers. The container choice, for example the storage vessel, may affect static accumulation and dissipation. Keep away from heat, ingition sources and oxidizing agents.		
7.3	Specific end use(s)		
	LUBRICANT		
SECTION	8: EXPOSURE CONTROLS/PERSONAL PROTE	CTION	
8.1	Control parameters		
	National occupational exposure limit values Other limit values	None established	
	Oil mist	5 mg/m2 (OSHA PEL TWA) 10mg/m2 (ACGIH TLV STEL)	
	DNEL	Chemical safety assessment has not been performed.	
	PNEC	Chemical safety assessment has not been performed.	
8.2	Exposure controls		
	Appropriate engineering controls	No special requirements under ordinary conditions or use and with adequate ventilation.	
	Eye/face protection	If eye contact is likely (splashes occur), safety glasses with side shields are recommended.	
	Skin protection	No skin protection is ordinarily required under norma conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.	
	Hand protection	No hand protection is ordinarily required under normal conditions of use. If skin contact is likely, appropriate chemical-resistant gloves are recommended. Contact glove manufacturer for appropriate choice of glove material.	
	Respiratory protection	No special requirements under ordinary conditions of use and with adequate ventilation. If airborne concentrations exceed recommended exposure limits, approved and appropriate respiratory protective equipment should be worn.	
		At 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/vapour warning properties are poor or if air purifying filter capacity/rating may be exceeded.	
	Thermal hazards Environmental exposure controls	No thermal hazards under normal use Prevent entry into sewers or the environment.	
SECTION	9: PHYSICAL AND CHEMICAL PROPERTIES		

9.1	Information on basic physical and chemical properties	
	Appearance	BUTTERY SEMI-SOLID
	Odour	Mild

Date: 12-June-2014

LubriSilk High Performance Greases

Odour threshold	Not determined
РН	6.5-7.5
Melting point/freezing point	Not determined; liquid at ambient temperatures
Initial boiling point and boiling range	375 Celcius / 705 Fahrenheit
Flash point	246 Celcius / 475 Fahrenheit (C.O.C.)
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	LEL 0.9%, UEL 7.0%
Vapour pressure	N/A
Vapour density	Not determined
Relative density	.929 G/Cm3
Solubility(ies)	Water solubility negligible
Partion coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Grease Grade #3 to #00
Explosive properties	Not explosive
Oxidising properties	Not oxidising

#### 9.2 Other information

SECTION	10: STABILITY AND REACTIVITY
10.1	Reactivity
	The material is not reactive under normal conditions of use and storage
10.2	Chemical stability
	The material is stable under normal conditions of use and storage
10.3	Possibility of hazardous reactions
	No hazardous reactions are expected under normal conditions of use and storage
10.4	Conditions to avoid
	Excessive heat
10.5	Incompatible materials
	Ignition sources, strong oxidizers
10.6	Hazardous decomposition products
	Hazardous decomposition products have not been reported
SECTION	11: TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects

Date: 12-June-2014

MATERIAL SAFETY DATA SHEET LubriSilk High Performance Greases

Acute toxicity	The material itself has not been tested for acute toxicity
-	Structurally similar materials have been found have been found to be minimally
	toxic: SODIUM CHLORIDE
	LD50 orally, >2600 mg/kg RAT
	LC50 (dermally, >2000 mg/kg RABBIT
Skin corrosion/irritation	While the material is not classified as corrosive or irritating to skin, skin contact may cause some irritation.
Serious eye	While the material is not classified as damaging or irritating to eyes, splashes or
damage/irritation	mist may cause mild short-term discomfort to eyes .
Respiratory or skin	The material is not classified as a respiratory or skin sensitiser.
sensitisation	
Germ cell mutagenicity	The material is not classified as a mutagen .
Carcinogenicity	The material is not classified as a carcinogen .
Reproductive toxicity	9.6 mg Boron/kg in rats. (Boron is x .1748 of Boric Acid content)
STOT-single exposure	The material is not classified as toxic to specific target organs .
STOT-repeated exposur	eThe material is not classified as toxic to specific target organs.
Aspiration Hazard	While the material is not classified as causing aspiration toxicity, aspiration into
	the lungs during swallowing or vomiting may cause severe pulmonary injury.
Other information	Injection of synthetic oils under skin requires immediate medical attention.

#### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

The material has not been classified as hazardous to the environment . No ecotoxicological data is available for the material itself. The material is not expected to be harmful to aquatic organisms. Prevent entry in soil, waterways or sewers.

12.2	Persistence and degradability
	Unknown
12.3	Bioaccumulative potential
	Unknown
12.4	Mobility in soil
	Water solubility of the material is negligible.
12.5	Results of PBT and vPvB assessment
	Chemical safety assessment has not been performed
12.6	Other adverse effects
	None reported
SECTION	13: DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	This material is considered as becaude us wants numericant to Directive 01/000/EEC on becaude us wants, and

This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies. European waste code: 13 02 06 (a national waste code should be given here if exists).

Disposal according to current national and local official regulations. The material is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to

#### Advanced Lubrication Technology, Inc. MATERIAL SAFETY DATA SHEET

Date: 12-June-2014

#### LubriSilk High Performance Greases

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.

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 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 INJURY OR DEATH.

	EXPLODE AND CAUSE INJURY OR DEATH.	
SECTION	14: TRANSPORT INFORMATION	
14.1	UN number	
	Not classified for transportation	
14.2	UN proper shipping name	
	Not classified for transportation	
14.3	Transport hazard class(es)	
	Not classified for transportation	
14.4	Packing group	
	Not classified for transportation	
14.5	Environmental hazards	
	The material has not been classified as hazardous to sewers.	o the environment. Prevent entry to soil, waterways and
14.6	Special precautions for user	
	Keep away from heat, ignition sources and strongly of	oxidizing materials
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
	Not applicable	
SECTION	15: REGULATORY INFORMATION	
15.1	Safety, health ad environmental regulations/legislation specific for the substance or mixture	
	No specific regulations	
15.2	Chemical safety assessment	
	Chemical safety assessment has not been performed	d
SECTION	16: OTHER INFORMATION	
	Changes to previous version Glossary of abbreviations	25 May 2011: Content checked and moved to new template; hazard statements ammended see below ACGIH: American Conference of Governmental Industrial Hygienists C.O.C: Cleveland open cup method LC50: Lethal concentration 50 % (median lethal concentration), concentration of the substance which kills 50 % of exposed organisms

Page 7 / 8

LD50: Lethal dose 50 % (median lethal dose), dose

MATERIAL SAFETY DATA SHEET LubriSilk High Performance Greases Date: 12-June-2014

of the substance which kills 50 % of exposed organisms LEL: lower explosive limit (% in air) OSHA: Occupational Safety and Health Administration (United States) PEL: permissible exposure limit STEL: short-term exposure limit TLV: threshold limit value TWA: time-weighted average UEL: upper explosive limit (% in air) R60 – May impair fertility

R61 – May cause harm to the unborn child

References List of relevant R phrases

In accordance with GHS/EU specifications the hazard statements and labeling requirements have been modified as component CAS 10043-35-3 is below the threshold for designation of the product as a hazardous product.

#### **OTHER INFORMATION**

THIS INFORMATION IS BASED ON PRESENT KNOWLEDGE AND SHOULD BE USED ONLY AS A GUIDE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES. ADVANCED LUBRICATION TECHNOLOGY INC. IS NOT HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCTS. MSDS HAS BEEN PREPARED IN ACCORDANCE WITH EU DIRECTIVE 67/548/EEC, 91/155/EEC AND OTHER EU COMMUNITY LEGISLATIONS IN FORCE.

End