

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum: 11 March 2015

MOTORSilk ENGINE OIL TREATMENT – ADVANCED FORMULATION

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	MotorSilk Engine Oil Treatment
Company productcode	200217-200228

1.2 Relevant identified uses of the substance or mixture and uses advised against

The uses of the mixture	Engine Oil Treatment
Classification of economic activities (NACE)	50.2 Maintenance and repair of motor vehicles
Use categories (UC62)	35 Lubricants and additives
The mixture can be used by the general public	Yes
The mixture is used by the general public only	No

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, other undertaking
Manufacturer
Advanced Lubrication Technology Inc.
30851 Agoura Road, Suite 305
Agoura Hills, CA 91301
USA
888-259-9190
tf@altboron.com

1.4 Emergency telephone number

USA Emergency number 911 Infotrac: 1-800-535-5053	Europe Emergency number 112 Infotrac International 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

Pictograph



Signal word **Warning**

Hazard statements

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H319	Causes eye irritation.

Precautionary statements

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. <u>Continue rinsing.</u>
P321	
P332+P313	If Skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/ attention.
P281	
P301+P310	
PP308+P313	

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum: 11 March 2015

MOTORSILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

P331	
P405	Store locked up
P501	Dispose of contents/container to in accordance with local regulations
Risk Statements	None
Safety Statements	
S53	Avoid exposure - obtain special instructions before use
S45	In case of accident or if you fell unwell, seek medical advice immediately

2.3 Other hazards:
NONE KNOWN

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS/EC number and the registration number	Chemical Name	Concentration	Classification 67/548/EEC	Classification Regulation (EC) No 1272/2008
Various (Proprietary)	Mixture of Polyols and Diols	>55 < 90		Ac Tox 5, Skin irrit. 2, Eye irrit 2A
64742-71-8	Paraffin oils, petroleum, catalytic dewaxed light	>10 -<35	T R45	

SECTION 4: FIRST AID MEASURES

4.1 Description of first air measures

Inhalation	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.
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.
Eye contact	Flush thoroughly with water. If irritation occurs, seek medical assistance.
Ingestion	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 respiratory tract.
Skin contact	Practically non toxic if absorbed thru the skin. Substance may cause slight irritation
Eye contact	Non irritating to the eyes.
Ingestion	Practically non-toxic if ingested. Harmful or fatal if swallowed and enters airways.. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage.
Other	May damage fertility or an unborn child

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

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum:11 March 2015

MOTORSILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

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 surface 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.

7.2 Conditions for safe storage, including any incompatibilities

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, ignition sources and oxidizing agents.

7.3 Specific end use(s)

LUBRICANT ADDITIVE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limit values	None established
Other limit values	
Oil Mist	5 mg/m ² (OSHA PEL TWA) 10 mg/m ² (ACGIH TLV STEL)

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum: 11 March 2015

MOTOR SILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

DNEL
PNEC

Chemical safety assessment has not been performed.
Chemical safety assessment has not been performed.

8.2	Exposure controls	
	Appropriate engineering controls	No special requirements under ordinary conditions of 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 normal 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, appropriate and appropriate respiratory protective equipment should be worn.
	Thermal hazards	No thermal hazards under normal use.
	Environmental exposure controls	Prevent entry into sewers or the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Translucent liquid
Odour	Mild
Odour threshold	Not determined
pH	Not applicable
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	0.14 mmHg
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Water solubility negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not Explosive
Oxidising properties	Not oxidising

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum:11 March 2015

MOTORSILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

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	
	Acute toxicity	The material itself has not been tested for acute toxicity Structurally similar materials 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, skin contact may cause some irritation.
	Serious eye Damage/ irritation	While the material is not classified as damaging or irritating to eyes, splashes or mist may cause mild short-term discomfort to eyes..
	Respiratory or skin sensitisation	The material is not classified as a respiratory or skin sensitiser
	Germ cell mutagenicity	The material is not classified as a mutagen .
	Carcinogenicity	The material is not classified as a carcinogen .
	STOT-single exposure	The material is not classified as toxic to specific target organs.
	STOT-repeated exposure	The material is not classified as toxic to specific target organs.
	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. Base oil is expected to partition to solids.
12.5	Results of PBT and vPvB assessment	Chemical safety assessment has not been performed
12.6	Other adverse effects	

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum: 11 March 2015

MOTORSILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

None reported.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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 valve or disposal by supervised incineration at very high temperatures to 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.

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 the environment. Prevent entry to soil, waterways and sewers.

14.6 Special precautions for user

Keep away from heat, ignition sources and strongly 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 and environmental regulations/legislation specific for the substance or mixture

No specific regulations

15.2 Chemical safety assessment

Chemical safety assessment has not been performed

SECTION 16: OTHER INFORMATION

Changes to previous version

16 April 2004: Context expanded to include additional substances.

Advanced Lubrication Technology, Inc.

MATERIAL SAFETY DATA SHEET

Datum: 11 March 2015

MOTORSILK ENGINE OIL TREATMENT – ADVANCED FORMULATION

17 May 2011: Content checked and moved to new template

21 January 2015: Revised to include formulation changes.

Glossary of abbreviations

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

LD50: Lethal dose 50 % (median lethal dose), dose of the substance which kills 50 % of exposed organisms

LEL: lower level 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)

References

Enter references for toxicological data, exposure limit values (if obtained from a publication), etc.

List of relevant R phrases

None

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