

Advanced Lubrication Technologies, Inc.

MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

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

1.1 Product identifier

Trade name MOTORSILK® "Step One" Engine Pre-Treat
Company productcode 200230-200241
REACH Registration number

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

The uses of the mixture Engine Conditioner
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.
3000 SW 42nd Ave.
Palm City, Florida
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 **GHS08**

Signal word **Danger**

Hazard statements

H304 May be fatal if swallowed and enters airways

Precautionary statements

P301+P310 If SWALLOWED: Immediately call a POISON CENTER or doctor/physician
PP308+P313 If exposure or concern: Get Medical advice/attention.
P331 Do NOT induce vomiting
P501 Dispose of contents/container to in accordance with local regulations

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
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MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

64741-89-5/265-091-3	Serv. Solvent Refined Light Paraffinic Petroleum Oil	60-70%		Aspr. H304
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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.
Skin contact	Wash with soap and water for 20 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.
Eye contact	Flush thoroughly with water. If irritation occurs, seek medical assistance.
Ingestion	Do not induce vomiting! Do not give liquids! Get medical attention immediately.

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.

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 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 (DO NOT use combustible material such as sawdust to contain spill). 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

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MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

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

Avoid breathing (dust, vapor, mist, gas). 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. NFPA class IIIB storage. Flashpoint is greater than 200 degrees F.

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)
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 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	Concentration in air determines the level of respiratory needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the

Advanced Lubrication Technologies, Inc.

MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

Thermal hazards	IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. 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	Purple or clear liquid
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	0.925 g/cm ³ at 25 deg C (68 deg F)
Solubility(ies)	Water solubility negligible
Partion 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

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

Avoid heat, sparks, and open flame.

10.5 Incompatible materials

Ignition sources, strong oxidizers

10.6 Hazardous decomposition products

Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants

SECTION 11: TOXICOLOGICAL INFORMATION

Advanced Lubrication Technologies, Inc.

MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

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.	

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	Follow federal, state, and local regulations. This material is not RCRA hazardous waste, if not contaminated. Do not flush material to drain or storm sewer. Contract to authorized disposal service.
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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

Advanced Lubrication Technologies, Inc.

MATERIAL SAFETY DATA SHEET

Revision Date: 16-June-2013

MOTORSILK "STEP ONE" ENGINE PRE-TREAT

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
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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
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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.
Revisions:	No material revisions.

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.

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