

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

1.1 Product identifier

Trade name	MOTORSILK ENGINE OIL TREATMENT
Company productcode	200110-200121
REACH Registration number	-

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

The uses of the chemical	Engine Oil Treatment
Classification of economic activities (NACE)	50.2 Maintenance and repair of motor vehicles
Use categories (UC62)	35 Lubricants and additives
The chemical can be used by the general public	Yes
The chemical 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
772-287-9280
drd@altboron.com

1.4 Emergency telephone number

USA Emergency number 911	Europe Emergency number 112
Infotrac: 1-800-535-5053	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	GHS07 	GHS08 	
Signal word	Warning	Danger	Toxic

Hazard statements
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H360 May damage fertility or the unborn child

Precautionary statements
P201 Obtain special instruction before use
P202 Do not handle until all safety precautions have been read and understood
P264 Wash skin thoroughly after handling
P280 Wear protective gloves
P281 Use of personal protective equipment as required.
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
P405 Store locked up
P501 Dispose of contents/container to in accordance with local regulations

Risk Statements

R60 May impair fertility
R65 May cause harm to unborn child

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
64741-89-5/265-091-3	Serv. Solvent Refined Light Paraffinic Petroleum Oil	65.75%		Aspr. H304
10043-35-3/(233-139-2) <13813-79-1/(237-478-7)>	Boric Acid (AKA)- <Orthoboric Acid>	7.4%	Annex 1 R60-61	Repr. 1B, H360
58128-22-6 or 27924-99-8	Polyhydroxystearic Acid, 12-Hydroxyoctadecanoic Acid, homopolymer	1%	Xi; R38	Skin irrit 2, H315

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
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)
	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	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	Off-white 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
	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

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 .
Reproductive toxicity	The material may damage fertility or an unborn child.
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
	None reported.
SECTION 13: DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods
	<p>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).</p> <p>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.</p> <p>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.</p>
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. 17 May 2011: Content checked and moved to new template
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	R60 – May impair fertility R61 – May cause harm to unborn child

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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