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MATERIAL SAFETY DATA SHEET

1. Chemical Product And Company Identification

Product Name AFRIQ LUBE ELECTRICAL CLEANER TYPE 3

Product Use Heavy Duty Cleaner

Manufacturer Afriq Lube and Services cc 016 424 4630 (t)
P.O. Box 263708 016 424 4651 (f)
Three Rivers afriqlube@telkomsa.net (e)
1935

2. Composition / Information On Ingredients

Chemical Name	Cas- no.	Weight %	Symbol Codes	R-Phrase Numbers
Aliphatic Petroleum Distillates	64742-88-7	100.0		

3. Hazards Identification

Potential health effects	
Eye	May cause mild eye irritation. Symptoms include stinging, tearing and redness.
Skin	May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning drying and cracking of skin and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling drying and cracking of skin and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.
Swallowing	Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.
Inhalation	Breathing of vapour or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.



Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8)

See Section 11 for further health effects / toxicological data

4. First Aid Measures

Inhalation	If respiratory irritation occurs due to excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.
Skin contact	Remove contaminated clothing. Dry wipe and cleanse with hand cleaner, soap and water. Launder contaminated clothing before re-use. (See Section 16 – Injection Injury)
Eye Contact	If symptom develop, move individual away from exposure and into fresh air. Flush thoroughly with water. If irritation occurs get medical attention.
Swallowing	Seek medical attention. IF individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control centre for advice about whether to induce vomiting. If possible, do not leave individual unattended.
Note to Physicians	This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See section 3 – Swallowing) when deciding whether to induce vomiting. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin lung (for example, asthma-like conditions).

5. Fire-Fighting Measures

Extinguishing media	Carbon dioxide, regular foam, dry chemicals.
Special fire fighting procedure	Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply.
Special protective equipment for fire fighters	For fires in closed areas, fire fighters must use Self-Contained Breathing Apparatus.
Unusual fire/explosion hazards	Vapours are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Products of decomposition	Carbon dioxide, carbon monoxide and various hydrocarbons.
Flash Point	>100 ° C (ASTM D-92)
Upper Explosion Limits	6.0 % (V)
Lower Explosion Limits	1.0 % (V)
NFPA Hazard ID	Health: 0; Flammability: 2; Reactivity: 0



6. Accidental Release Measures

Small spill	Absorb liquid on vermiculite, floor absorbent or other absorbent material.
Large spill	Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

7. Handling And Storage

Handling	Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapour, liquid and or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and or bonded when material is transferred. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapours of flammable liquids. Warning. Sudden release of hot organic chemical vapours or mists from process equipment operating at elevated temperature and pressure, or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "auto ignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.
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8. Exposure Controls / Personal Protection

Occupational Exposure Limits (OELs)

Components	Cas- no.	Source	TWA	Value	Notations
Aliphatic Petroleum Distillates	64742-88-7	100.0			

LTEL	Long Term Exposures Limits- Time Weight Average (TWA) over 8 hours.
STEL	Short Term Exposure Limits- Time Weight Average (TWA) over 15 minutes.
Note	Limits Show for guidance only. Follow applicable regulations.

Personal Protection Equipment (PPE)



Engineering controls	If mists are generated, use ventilation, local exhaust or enclosures to control below exposure limits.
Respiratory protection	Approved respiratory equipment must be used when mist concentrations exceed the recommended exposure limits.
Eye protection	If splash with liquid is possible, chemical type goggles should be worn. Consult your safety representative.
Skin and body protection	Wear resistant gloves and clothing and boots. Good personal hygiene practices should always be followed.

9. Physical And Chemical Properties

Appearance	Water white Liquid
Colour	Clear
Odour	Hydrocarbon
Solubility	Negligible
Boiling point / range	179.4 °C
Flash Point	>100 °C (ASTM D92)
Vapour Pressure	<0.1 hPa
Specific gravity	0.93
pH	No data
Physical form	Neat

10. Stability And Reactivity

Chemical Stability	Stable
Hazardous Polymerization	Product will not undergo hazardous polymerization.
Incompatibility	Avoid contact with: strong oxidizing agents.
Hazardous decomposition	May form: Carbon dioxide and carbon monoxide, various hydrocarbons.

11. Toxicological Information

No data

12. Ecological Information

No data

13. Disposal Considerations

Waste Management	Dispose of in accordance with all applicable local, state and federal regulations.
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14. Transport Information

DOT INFORMATION – 49 CFR 172.101	
DOT DESCRIPTION	PETROLEUM DISTILLATES, N.O.S, COMBESTIBEL LIQUID, UN1268, III
CONTAINER / MODE	55 GAL DRUM /TRUCK PACKAGE
NOS COMPONENT	NAPHTHA
RQ (REPORTABLE QUANTITY)	49 CFR 172.101
Not applicable	
OTHER TRANSPORTATION INFORMATION	THE DCT TRANSPORT INFORMATION MAY VARY WITH THE CONTAINER AND MODE OF SHIPMENT

15. Regulatory Information

US FEDERAL REGULATIONS	TSCH (UNITED STATED) The intentional ingredients of this product are listed.
CERCLA RQ – 40 CFR 302.4 (a)	None listed
SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A	NONE
SECTION 311/312 HAZARD CLASS – 40 CFR 370.2	Immediate (X) Delayed () Fire (X) Reactive () Sudden Release of Pressure ()
SARA 313 COMPONENTS – 40 CFR 372.65	NONE
OSHA PROCESS SAFETY MANAGEMENT 29 CFR 1910	NONE LISTED
EPA ACCIDENTAL RELEASE PREVENTION 40 CFR 68	NONE LISTED
INTERNATIONAL REGULATIONS INVENTORY STATUS	AICS (AUSTRALIA) the intentional ingredients of this product are listed. DSL (Canada) the intentional ingredients of this product are listed. ECL (SOUTH KOREA) the intentional ingredients of this product are listed. EINECS (EUROPE) the intentional ingredients of this product are listed. ENCS (JAPAN) the intentional ingredients of this product are listed. IECSC (CHINA) the intentional ingredients of this product are listed. PICCS (PHILIPPINES) the intentional ingredients of this product are listed.
STATE AND LOCAL REGULATIONS CALIFORNIA PROPOSITION 65	NONE



16. Other Information

Note: Afriq Lube products do not contain PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered:

FIRST AID	Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapour, remove to fresh air. If ingested do not induce vomiting. If any symptoms persist seek medical attention. Read and understand the MSDS before using this product.
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 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.
SAFETY	Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or irritation. Always observe good hygiene measures.

Disclaimer

Information given here in is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind of nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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