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MATERIAL SAFETY DATA SHEET

1. Chemical Product And Company Identification

Product Name	AFRIQ LUBE ELECTRICAL CLEANER TYPE 6		
Product Use	Heavy Duty Cleaner		
Manufacturer	Afriq Lube and Services cc P.O. Box 263708 Three Rivers 1935	016 424 4630 (t) 016 424 4651 (f) afriqlube@telkomsa.net (e)	

2. Composition / Information On Ingredients

Chemical Name	Cas- no.	Weight %	Symbol Codes	R-Phrase Numbers
Trichloroethylene	79-01-6	100.0		

3. Hazards Identification

Potential health effects

Note

DANGER!
Harmful if swallowed.
Inhalation causes headaches, dizziness, drowsiness, nausea and may lead to unconsciousness.
Causes eye irritation.
Causes skin irritation.

Do not ingest. Avoid contact with eyes, skin and clothing. Do not breathe vapour or mist. Keep container closed. Use only with adequate ventilation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and or dermatitis. Wash thoroughly after handling.

Routes of entry

Skin contact. Eye contact. Inhalation. Ingestion.

Health effects

Eyes

Causes eye irritation.

Skin

Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and or dermatitis.

See Section 11 for further health effects / toxicological data



4. First Aid Measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact	Immediately wash exposed sin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Eye Contact	Flush thoroughly with water. If irritation occurs call a doctor.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Note to Physicians	Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

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	A strong ignition source, e.g. welding torch, can produce ignition. Sealed containers may rupture when heated.
Fire	Auto ignition temperature: 420C (788F) Flammable limits in air % by volume: lel: 8, uel: 12.5

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, steams 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.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits (OELs)

Components	Cas- no.			
Trichloroethylene	79-01-6	OSHA	100ppm 200ppm 300ppm	Ceiling

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

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

Eye protection

Avoid contact with eyes; chemical type goggles should be worn.

Skin and body protection

Avoid contact with skin and clothing. Wear suitable protective clothing.

9. Physical And Chemical Properties



Appearance	Water white Liquid
Colour	Clear
Odour	Chloroform-like
Solubility	Practically insoluble in water. Readily miscible in organic solvents
Boiling point / range	87 °C
Flash Point	>100 °C (ASTM D92)
Vapour Pressure	<57.8 hPa
Specific gravity	1.47 @ 20 C
pH	No data

10. Stability And Reactivity

Chemical Stability	Stable
Hazardous Polymerization	Product will not undergo hazardous polymerization.
Incompatibility	Strong caustics and alkalis, strong oxidizers, chemically active metals, such as barium, lithium, sodium, magnesium, titanium and beryllium, liquid oxygen.
Hazardous decomposition	May form: Carbon dioxide and carbon monoxide, hydrogen chloride and phosgene when heated to decomposition.

11. Toxicological Information

Trichloroethylene	Oral rat LD50 5650 mg/kg investigated as a tumorigen, mutagen, reproductive effector.
Reproductive Toxicity	This material has been linked to mutagen effects in humans.

12. Ecological Information

Environmental Fate	When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released to water, this material is expected to quickly evaporate. This material has an experimentally determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.
Environmental Toxicity	The LC50/96-hour values for fish are between 10 and 100mg/l. This material is expected to be slightly toxic to aquatic life.

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

Domestic (land, D.O.T)

Proper shipping name	Trichloroethylene
Hazard Class	6.1
UN/NA:	UN1710
Packing Group	III
Information reported for product/size	5GL

International (water, I.M.O)

Proper shipping name	Trichloroethylene
Hazard Class	6.1
UN/NA:	UN1710
Packing Group	III
Information reported for product/size	5GL

International (Air, I.C.A.O)

Proper shipping name	Trichloroethylene
Hazard Class	6.1
UN/NA:	UN1710
Packing Group	III
Information reported for product/size	5GL

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
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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.

Prepared by

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Prepared on

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