



Quality, service, and customer satisfaction is our driving force.



## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product And Company Identification

*Product Name* AFRIQ LUBE ENGEN CLEANER SOLVENT BASE

*Product Use* Degreaser

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

### 2. Composition / Information On Ingredients

Chemical Name	Cas- no.	Weight %	Symbol Codes	R-Phrase Numbers
Heavy Aromatic Petroleum Solvent	64742-94-5	75.00 – 85.00		
Medium Aliphatic Petroleum	64742-88-7	10.00-20.00		
Hexylene Glycol	107-41-5	1.00-10.00		
Benzene	71-43-2	<0.10		

See Section 8 for Exposure Limits (if applicable)

### 3. Hazards Identification

Emergency response data:

Blue Liquid. Flammable. Vapour density heavier than air. DOT  
ERG No.: 128

#### **GHS Classification**

##### **Health**

Acute inhalation toxicity

Acute oral toxicity

Skin irritation

Eye irritation

Hazard category 4. Harmful if inhaled.

Danger

Hazard category 5. Practically non-toxic, but when swallowed can  
cause lung damage.

Warning

Hazard category 2. Causes irritation.

Warning

Hazard category 2A. Causes eye irritation.

Warning

##### **Environmental**

Aquatic toxicity

Hazard category 3. Very toxic to fish, aquatic organisms and  
wildlife.

Warning



**Physical**

Flammability

Hazard category 4. Combustible liquid. Warning

**Hazard statements**

Combustible liquid. May be harmful if swallowed or inhaled. Causes skin and severe eye irritation.

**Precautionary statements**

**Response**

IN CASE OF FIRE: Use carbon dioxide, foam or dry chemical for extinction. IF SWALLOWED: Get medical attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; Get medical attention. IF ON SKIN: Immediately remove all contaminated clothing. Gently wash skin with plenty of soap and water. Launder contaminated clothing before re-use. If skin irritation occurs: get medical attention.

**Storage**

Store in a well-ventilated place and keep the container cool and tightly closed.

**Disposal**

Do not discharge into lakes, streams, ponds and ground water supply.

See Section 11 for further health effects / toxicological data

**4. First Aid Measures**

Inhalation	Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, 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	Flush thoroughly with water for 15 minutes. Call a doctor.
Ingestion	Seek immediate medical attention. Do not induce vomiting.
Note to doctors	Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

**5. Fire-Fighting Measures**

Extinguishing media	Carbon dioxide, foam, dry chemicals and water fog.
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	Flammable.



hazards	
Products of decomposition	Fumes, smoke, carbon monoxide.
Flash Point	>85 ° C (ASTM D-92)
Upper Explosion Limits	6.0 % (V)
Lower Explosion Limits	0.8 % (V)
NFPA Hazard ID	Health: 0; Flammability: 2; Reactivity: 0

## 6. Accidental Release Measures

Procedure if material is released or spilled	Report spills / release as required to appropriate authorities.
Methods for cleaning up	Absorb on fire-retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant utensils for later disposal at an approved facility, in accordance with current laws and regulations.
Personal precautions	See Section 8
Environmental precautions	Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the relevant authorities if contaminations have occurred.

## 7. Handling And Storage

Safe handling advice	Avoid prolonged repeated skin contact
Storage information	Store away from all ignition sources in a cool, well-ventilated area. This product is a static accumulator; therefore, all storage containers should be grounded and bonded. Drums should also be equipped with self-closing valves, pressure vacuum bungs and flame arresters.
Storage and handling procedures	Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Refer to national or local regulations covering safety at petroleum handling and storage areas for this product.

## 8. Exposure Controls / Personal Protection

### Occupational Exposure Limits (OELs)

Components	Cas- no.	Source	TWA	Value		Notations
Heavy Aromatic Petroleum Solvent	64742-94-5	ACGIH TLV		525 mg/m <sup>3</sup>	100ppm	
Hexylene Glycol	107-41-5	ACGIH TLV	STEL	121 mg/m <sup>3</sup>	25ppm	Ceiling
		OSHA PEL	STEL	121 mg/m <sup>3</sup>	25ppm	

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
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	control below exposure limits.
Respiratory protection	Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the recommended exposure limit. Self-contained breathing apparatus may be required for use in confined or enclosed spaces.
Eye protection	Normal industrial eye protection practices should be employed.
Skin and body protection	Wear solvent resistant gloves and clothing. Good personal hygiene practices should always be followed.

## 9. Physical And Chemical Properties

Appearance	Liquid
Colour	Blue
Odour	Aromatic
Solubility	Immiscible
Boiling point / range	>179 °C
Flash Point	85°C (ASTM D56)
Vapour Pressure	<20 hPa
Upper Explosion Limit (UEL)	6.0 % (V)
Lower Explosion Limit (LEL)	0.8 % (V)

## 10. Stability And Reactivity

Stability	Stable
Condition to avoid	Extreme heat and high energy sources of ignition, such as sparks and static electricity.
Materials to avoid	Strong oxidizers
Hazardous decomposition products	Fumes, smoke, carbon monoxide.

## 11. Toxicological Information

Acute oral toxicity	(Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg). Based on testing of similar products and / or components.
Acute inhalation toxicity	(Rats): Harmful (LC50: Greater than 10 but less than 20mg/l 4 hours). Based on testing of similar products and / or components. Warning hazard category 4. Harmful if inhaled.
Acute dermal toxicity	(Rabbits): Practically non-toxic (LC50: greater than 2000mg/l). Based on testing of similar products and / or components.
Skin irritation	(Rabbits): Irritant. (Primary Irritation Index LC50: greater than 3 but less than 6). Based on testing of similar products and / or the components. Causes skin irritation. Hazard category 2. Warning.



Eye irritation	(Rabbits): Mild irritant. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and / or the components. Causes eye irritation.
Respiratory and skin Sensitization	This product has been reported to be a skin sensitizer.
Germ cell mutagenicity	This product tested negative in a series of mutagenic tests.
Carcinogenicity	Certain straight-run middle distillates have been found to reduce skin tumours in laboratory mouse skin-painting tests, but these have usually been associated with a high level of skin irritation. Laboratory tests have indicated that the irritation can produce tumours. Therefore, if the precautions outlined in this MSDS are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans
Reproductive toxicity (Teratogenicity)	Hexylene Glycol has produced evidence of slight foetal dose toxicity at a maternally toxic dose (1000mg/kg/day).
Specific target organ toxicity (STOT) – single exposure	Low viscosity material if swallowed may enter the lungs and cause lung damage.
Specific target organ toxicity (STOT) – repeated exposure	Animal studies with similar materials by inhalation for 12 months showed no significant neurotoxic, blood, kidney or other effects. Prolonged repeated sin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.
Aspiration hazard	Material if aspirated into the lungs may cause chemical pneumonitis.

## 12. Ecological Information

### *Elimination information (persistence and durability)*

Biodegradability	This product is expected to be inherently biodegradable.
Mobility	Not established
Bioaccumulation	Minimal owing to low water solubility
<b>Eco toxicity effects</b>	
Toxicity to fish	(Juvenile rainbow trout) LC/EC50: 1-10ppm
Toxicity to aquatic organisms	(Daphnia magna)LC/EC50: 9.4 mg/l at 8 hours
<b>Further information on ecology</b>	
Remarks	Toxic to fish, aquatic organisms and wildlife. Do not discharge into lakes, streams, ponds and ground water supply.

## 13. Disposal Considerations

Waste disposal	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conversation and Recovery Act. In addition, the
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	product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
Contaminated packaging	Empty containers retain residue (liquid and / or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Other regulations	The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.
Flash Point	>85 °C (ASTM D-92)

## 14. Transport Information

<b>ADR</b>	
Proper shipping name	Petroleum distillates, n.o.s. (contains Heavy Aromatic Petroleum Solvent)
Class	3
Letter	F
Packaging group	III
Labelling number	3
<b>CFR</b>	
Proper shipping name	Petroleum distillates, n.o.s. (contains Heavy Aromatic Petroleum Solvent)
Class	3
Letter	F
Packaging group	III
Labelling number	3
<b>IATA_C</b>	
Proper shipping name	Petroleum distillates, n.o.s. (contains Heavy Aromatic Petroleum Solvent)
Class	3
Letter	F
Packaging group	LII
Labelling number	3
<b>IMDG</b>	
Proper shipping name	Petroleum distillates, n.o.s. (contains Heavy Aromatic Petroleum Solvent)
Class	3



Letter	F
Packaging group	LII
Labelling number	3
Marine pollutant	Marine Pollutant
Medical First Aid Guide (MFAG) table	311
Emergency Schedule (EmS) number	3-07
IMDG code page number	3375
Static Accumulator (50 picosiemens or less)	Yes

## 15. Regulatory Information

US OSHA Hazard Communication Standard	When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.
Governmental Inventory	All components comply with TSCA, EINECS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.
EU labelling	Product is not dangerous as defined by the European Union Dangerous Substances / Preparations Directives. EU labelling not required.
Symbols	F, Xn, N Flammable, Harmful, Dangerous for the environment
R-Phrase(s)	R36/38, R52/53, R65 Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
S-Phrase(s)	S36/37/39, S38, S26, S62 Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Note	Contains Low Viscosity Oil.
<b>SARA</b>	
U.S Superfund Amendments and Reauthorization Act SARA Title III	This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) Reportable Hazard Categories	Fire Chronic Acute
SARA (313) Toxic Release Chemicals:	Benzene (71-43-2) – Conc < .01%.



The following product ingredient are cited on the list below

Chemical name	Cas-no.	Concentration (%)	List Citations
Heavy Aromatic Petroleum Solvent	64742-94-5	75.00 – 85.00	1,2,18,19,20,21,23,25
Medium Aliphatic Petroleum	64742-88-7	10.00-20.00	18,19,20,21,23,25
Hexylene Glycol	107-41-5	1.00-10.00	1,10,18,19,20,21,23,25,26
Benzene	71-43-2	<0.10	1,2,4,6,9,10,16,17,18,19,20,21,22,23,24,25,26

**Regulatory List Searched**

1=ACGIH ALL	6=IARC 1	11=TSCA 4	17=CA P65	22=MI 293
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	18=CA RTK	23=MN RTK
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	19= FL RTK	24=NJ RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	20=IL RTK	25=PA RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	21=LA RTK	26=RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

**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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