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MATERIAL SAFETY DATA SHEET

1. Chemical Product And Company Identification

Product Name	AFRIQ LUBE ENGINE CLEANER W/BASE		
Product Use	Degreaser		
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
Sodium hydroxide (50%)	1310-73-2	1-5		
Ethylene glycol monobutyl ether	111-76-2	3-7		
Sodium metasilicate	6834-92-0	1-5		

3. Hazards Identification

Corrosive liquid.
Causes burns.
Harmful if swallowed.

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 skin 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 for at least 15 minutes. Get medical assistance.
Ingestion	Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-Fighting Measures



Flash point (test method)	Not applicable
Flammable limits (%)	Not flammable
Lower	Not applicable
Upper	Not applicable
Fire extinguishing substances	Use extinguishing media appropriate for surrounding fire.
Auto ignition temperatures	Not applicable
Hazardous combustion products	May liberate carbon monoxide, carbon dioxide and oxides of sodium.
Explosion data	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Sensitivity to mechanical impact	Not applicable
Sensitivity to static discharge	Not applicable
Special fire fighting procedures	As for surrounding fire. Fire fighters should wear full protective clothing and self-contained breathing equipment.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment.
Environmental precautions	Prevent from entering sewers, waterways or low areas.
Methods for cleaning up	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. Handling And Storage

Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage information	Keep out of reach of children. Keep container tightly close. Store in a cool, dry area.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits (OELs)

Components	ACGIH	OSHA	OTHER
Sodium hydroxide (50% Sol.)	2 mg/m ³	Not available	
Ethylene glycol monobutyl ether	20 ppm TWA	Not available	

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. Wear a face shield if splashing hazards exists.
Other protection	Wear protective clothing as necessary to prevent skin contact.

9. Physical And Chemical Properties

Appearance	Liquid
Colour	Red
Odour	Butyl
pH	12.9-1% sol.: 11.2
Solubility in water	Complete
Boiling point / range	100C
Freezing point	Not available
Specific gravity	1.0815
Vapour Pressure	Not available
Vapour Density	Not available
Evaporation rate	Not available
Odour threshold	Not available

10. Stability And Reactivity

Stability	Stable
Condition of instability	Not available
Incompatibility	() Water (X) Oxidizers (X) Acid () Base () Other
Hazardous decomposition products	Not available
Conditions of reactivity	Reacts with acids and metals

11. Toxicological Information

An acute toxicity study of this product has not been conducted.

Potential Acute Health Effects	
Inhalation	Corrosive to respiratory system



Ingestion	Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact	Causes burns
Skin contact	Causes burns
Skin absorption	Not available
Potential Chronic Health Effects	
Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Not available
Eye contact	Not available
Skin contact	Not available
Skin absorption	Not available Prolonged overexposure to high concentrations of ethylene glycol monobutyl ether by absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory animals.
Irritancy of product	See WHMIS criteria
Sensitization of product	Not available
Carcinogenicity: IARC (1,2A or 2B) ACGIH : (A1, A2 or A3)	No known significant effects No known significant effects
Reproductive toxicity:	No known significant effects
Teratogenicity	No known significant effects
Mutagenicity	No known significant effects
Synergistic product	Not available

HAZARDOUS INGREDIENT	CAS NO	TOXICITY DATA
Sodium hydroxide (50%)	1310-73-2	LD50 oral (rabbit) 500 mg/kg
Ethylene glycol monobutyl ether	111-76-2	LD50 oral (rat) 1480 mg/kg LD 50 dermal (rabbit) 630 mg/kg
Sodium metasilicate	6834-92-0	LD50 oral (rat) 847 mg/kg

12. Ecological Information

Eco toxicological **Not available**

13. Disposal Considerations

Waste disposal	Disposal of all waste must be done according to local, provincial and federal regulations.
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14. Transport Information

TDG classification	Sodium hydroxide, solution; Class 8; UN 1824; PG II
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15. Regulatory Information

WHMIS	E	Corrosive material
	D2B	Other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other Information

Note: Afriq Lube products do not contain PCBs.

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	Product Safety Adviser Health, Safety, Environment and Quality Department Afriq Lube and Services cc 263 708 Three Rivers 1935
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