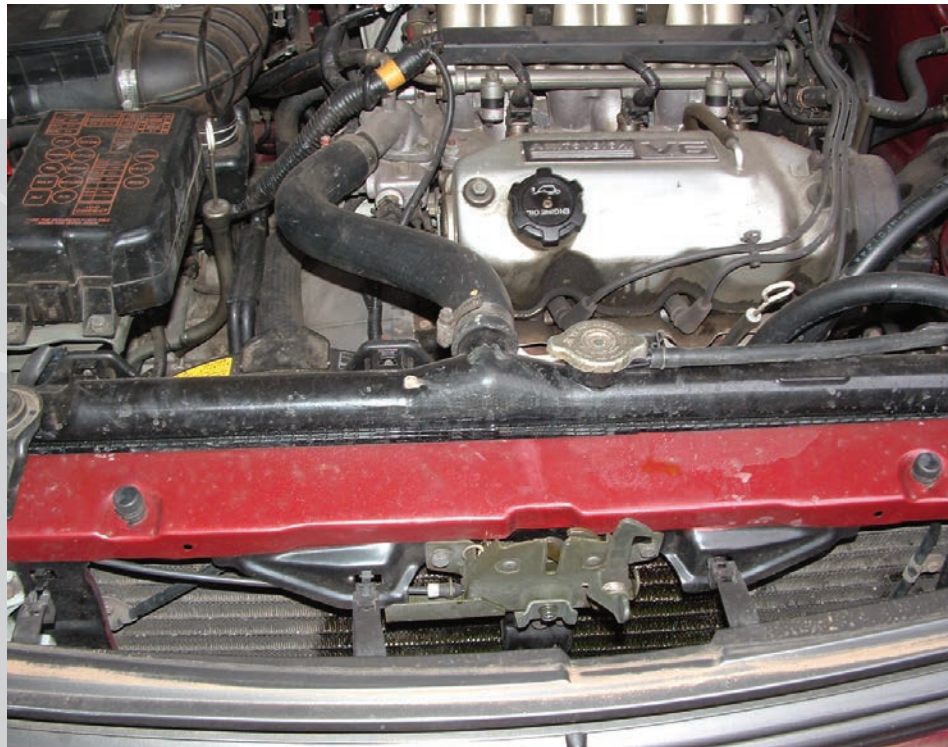




**ZetaLube**

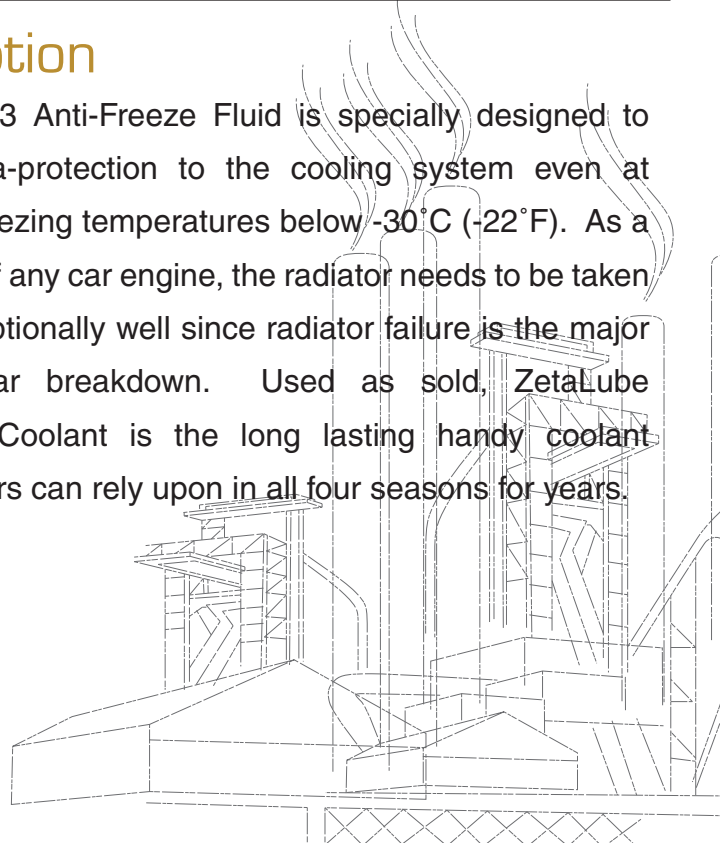
A New Lubricity Dimension  
Evolved From Experience



# ZetaLube 803 Anti-Freeze Fluid

## Description

ZetaLube 803 Anti-Freeze Fluid is specially designed to provide extra-protection to the cooling system even at extremely freezing temperatures below  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ). As a critical part of any car engine, the radiator needs to be taken care of exceptionally well since radiator failure is the major cause of car breakdown. Used as sold, ZetaLube Anti-Freeze Coolant is the long lasting handy coolant vehicle owners can rely upon in all four seasons for years.



**MAGNA INDUSTRIAL CO. LIMITED**  
*Total Quality Maintenance*

[www.magnagroup.com](http://www.magnagroup.com)

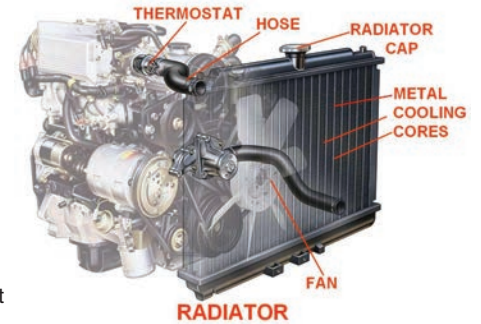
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## Features and Benefits

- Outstanding heat transfer and protection against scaling, rust and corrosion.
- Long product service life
  - For heavy duty/commercial engines - up to 5 years or 6,000 hours or 500,000 kms whichever comes first.
  - For automobile engines – up to 5 years or 250,000 kms whichever comes first.
- Wide range of service temperature - excellent protection against freezing temperatures in winter and anti-boiling at high temperatures.
- Available in winter and normal formulations for various weather conditions.
- Contains no silicates or environmentally harmful borates, phosphates, amines or nitrates.
- Suitable for gasoline and diesel powered passenger cars and trucks.
- Can be used for re-fill or top-up.



## Application

- With engine ignition off and cooled for at least 15 to 20 minutes, remove the radiator cap carefully.
- Drain the old coolant through the drain plug or drain cock and collect the used coolant with a catch basin or bucket. (Please dispose of used coolant with care according to local regulations if applicable).
- Make sure that the coolant system is empty and close the drain plug or drain cock.
- For more effective preventive maintenance, flush the radiator with radiator flush such as ZetaLube 800 Radiator Flush.
- Refill the radiator with ZetaLube 803 Anti-Freeze Fluid.
- Always check the owner's manual for manufacturers' maintenance requirements and recommendations such as specifications of coolants, recommended oil-change interval/mileage, etc.

## Recommended Applications

ZetaLube 803 Anti-Freeze Fluid is recommended where the following performance levels are cited:

- ASTM D3306 for automobile/light-duty service
- ASTM D4985 & D6210 for heavy duty engines
- GM 6277M
- Ford WSS-M97B44-C
- Volvo
- Scania

## Typical Data

TEST	TEST RESULT
Color	Orange
Density, g/ml @ 20°C	1.113
pH, 33% Solution	8.4
Reserve Alkalinity, ml (pH 5.5)	5
Boiling Point, °C	172
Freezing Point, °C	
Winter Formulation, °C	-37
Normal Formulation, °C	-20

The data shown are typical value and may vary.

## Pack-size

1 Litre Plastic Container

Authorized Distributor

**Alshawi Trading,**  
Block 351, Road 51, Bldg 20, Manama - Bahrain.  
www.alshawitrading.com  
info@alshawitrading.com  
P. O. Box : 33526

Tel: (973) 1755 0019  
Fax: (973) 1755 5108

**MATERIAL SAFETY DATA SHEET**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200, Standard must be consulted for specific requirements.

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32 OI KWAN ROAD, WANCHAI,  
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FAX: (852) 2577 3190

<b>IDENTITY (As Used on Label and List)</b> <b>ZETALUBE 803</b>	<b>LAST ASSESSED:</b> 29 May 2007
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**SECTION I - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<i>Hazardous Components (Specific Chemical Identity: Common Name(s))</i>	<i>CAS NO.</i>	<i>ACGIH TLV</i>	<i>Other Limits Recommended</i>
Monoethylene glycol	107-21-1	60 ppm	-
Water	7732-18-5	N.A.	
Denatonium benzoate	3734-33-6	N.A.	-

**SECTION II - PHYSICAL CHARACTERISTICS**

<i>Boiling Point</i>	N.A.	<i>Specific Gravity (H<sub>2</sub>O = 1)</i>	~1.0
<i>Vapor Pressure (N.A.)</i>	N.A.	<i>Melting Point</i>	N.A.
<i>Vapor Density (AIR = 1)</i>	N.A.	<i>Evaporation Rate (Ether = 1)</i>	N.A.

*Solubility in Water* Complete

*Appearance and Odor* Clear orange liquid with mild odour

**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

<i>Flash Point (Method Used)</i> >115°C	<i>Flammable Limits</i> N.A.	<i>LEL</i> -	<i>UEL</i> -
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***Extinguishing Media***

Dry chemical, water fog, carbon dioxide, foam, and sand.

***Special Fire Fighting Procedures***

Fire fighters should wear an approved self-contained breathing apparatus.

***Unusual Fire and Explosion Hazards***

None expected.

**SECTION IV - REACTIVITY DATA**

<i>Stability</i> Stable	<i>Conditions to Avoid</i> Excessive heat
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***Incompatibility (Materials to Avoid)***

Strong oxidizing agents.

***Hazardous Decomposition or Products***

Oxides of carbon and other organic compounds.

<i>Hazardous Polymerization</i> Will Not Occur	<i>Condition to Avoid</i> None
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**SECTION V - HEALTH HAZARD DATA**

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**Threshold Limit Value**

See section I hazardous ingredients

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**Effects of Overexposure**

There is no lethal dose information available.

Inhalation: Inhalation of vapours can cause irritation of the respiratory tract. High concentrations of oils, mists or vapours can cause chemical pneumonitis. Inhalation of vapors from material at high temperature (over 250°C) must be avoided.

Skin: May cause irritation, drying and cracking.

Eyes: Cause irritation.

Ingestion: May cause irritation in mouth and stomach, thirst, nausea, vomiting, diarrhoea, with possible collapse if large amounts ingested.

Aspiration of material upon vomiting may cause chemical pneumonitis.

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**Emergency & First Aid Procedures**

Eyes: Flush with large amounts of water for at least 15 min. Call a physician immediately.

Skin contact: Wash thoroughly with soap and water.

Inhalation: N.A.

If swallowed: Call a physician immediately.

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**SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**Steps to Be Taken In Case Material Is Released or Spilt**

Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, and vermiculite. Sweep up and dispose of as solid waste comply with all local and national regulations.

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**Waste Disposal Method**

By methods consistent with local and national regulations.

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**Precautions to Be Taken in Handling and Storing**

Keep containers closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash clothing before re-use. Keep away from feed and food products. Avoid contamination of cigarettes or other tobacco products.

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**Other Precautions**

Keep out of the reach of children.

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**SECTION VII - CONTROL MEASURES**

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**Respiratory Protection (Specify Type)**

None required unless mists, smokes or vapors are produced at high temperatures.

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<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Special</b>
	N.A.	N.A.
	<b>Mechanical (General)</b>	<b>Other</b>
	N.A.	N.A.
<b>Protective Gloves</b>	<b>Eye Protection</b>	
Rubber or plastic oil resistant gloves.	Safety goggles and full-face shield when handled hot.	

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***Other Protective Clothing or Equipment***

None required

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***Work/Hygienic Practices***

N.A.

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***Remarks***

Transportation: Not classified.

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