



SAFETY DATA SHEET

ANTIFREEZE ANTIBOIL

Version 3.0

Date of Issue: 28.2.2017

Section 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Antifreeze Antiboil
Product Code	501
Product Uses	Radiator coolant
Company Name	Lubrimaxx Pty Ltd (ABN 2500 685 0415)
Address	30 Spencer St, Sunshine West, VIC 3020
Telephone Number	(03) 9300 6900
Fax Number	(03) 9312 3239
Emergency Tel.	Australia- 1 300 72300 Malaysia- + 603 55112346
Internet Website:	www.lubrimaxx.com

Section 2. HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulations.

GHS Classification

Acute Toxicity : Category 4

Specific target organ toxicity - single exposure : Category 2 (Central nervous system, Kidney)

Specific target organ toxicity - repeated exposure : Category 2 (Kidney)

GHS element, including precautionary statements

Symbol:



Signal Word: Warning

Hazard statement:

H302: Harmful if swallow

H371: May cause damage to organs (Central nervous system)

H373: May cause damage to organs (Kidney)

Precaution statement

Prevention

P260

Do not breathe dust/ fame/ gas/ mist/ vapour/ spray

P264

Wash the effected area thoroughly after handling



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P270	Do not eat, drink or smoke when using this product
<u>Response</u>	
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth
P309+P311	IF exposed: Call a POISON CENTER or doctor/ physician
P314	Get medical advice/ attention if you feel unwell
<u>Storage</u>	
P405	Store locked up
<u>Disposal</u>	
P501	Dispose of content/container in accordance with government regulations for the disposal of special waste

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product contains mixture of paraffinics hydrocarbon distillates and performance additives

Ingredients:

Name	CAS Number	Proportion (%)
Ethylene Glycol	107-21-1	<90
Corrosion Inhibitor package	NA	>9
Dye	NA	<1

Section 4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation: Remove the source of contamination, vapor, dust, spray or fumes or move the victim to fresh air. Obtain medical attention if symptoms occur

Ingestion: Take victim immediately to hospital. Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek urgent medical advice (e.g. doctor).

Skin contact: Wash affected area thoroughly with soap and water. Immediately remove contaminated. If symptoms develop seek medical attention.

Eye contact: Immediately wash with copious amounts of water for at least 15 minutes. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If symptoms persist seek medical attention.

First Aid Facilities: Eye wash and normal wash room facilities.

Advice to Doctor: Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.



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Section 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Extinguish fires with water spray or apply alcohol-type or all-purpose type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires

Unsuitable extinguishing media

High volume water jet.

Specific hazard arising from the chemical: Depending on combustion conditions, a complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, will be evolved when this material undergoes combustion.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus for fire fighting if necessary

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not direct a solid stream of water or foam into hot, burning pools. This may cause frothing and increase fire intensity

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Non-emergency personnel: Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Remove of ignition sources and provision of sufficient ventilation.

Emergency Procedures: Personnel involved in clean up required to wear appropriate personal protective equipment and clothing to minimize exposure.

Environmental precaution: Isolate the spillage and prevent the material to enter drains, sewers, waterways and soil. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Method and materials for containment and cleaning up:

Large spills should be contained and collected. Small spills can be collected or may be absorbed with appropriate liquid absorbing materials. All spill response and disposal should be carried out in accordance with national and local requirements. Keep in suitable, closed containers for disposal. Use appropriate safety equipment.



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Section 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated breathing of aerosol and vapor. Use with adequate ventilation. Wash thoroughly after handling. For industry use only. Keep container closed. Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

WARNING: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, 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.

Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. General (mechanical) room ventilation may be adequate, if handled at ambient temperatures or in covered equipment. If ambient temperatures are exceeded or operations exist which may produce mist, aerosol or vapor, local exhaust ventilation or other engineering controls may be required.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: The TWA exposure standard for Ethylene Glycol (vapour) is 60 mg/m^3 . As with all chemicals, exposure should be kept to the lowest possible levels.

Engineering Controls: Use only in well ventilated areas.

Eye Protection: Wear mono-goggles or face shield to avoid eye contact or splashing.

Hand Protection: Avoid contact with skin. Impervious gloves recommended. Wear suitable protective clothing.

Respiratory protection: Do not breathe dust, fumes or vapor. Use approved respirator when exposed to concentration above the exposure limit.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid



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Colour	Green or red
Odour	Mild sweet
Odour Threshold	Not available
pH	Not available
Specific Gravity	Not available
Viscosity, kinematic	Not available
Boiling Point	Approximately 180 ⁰ C
Melting Point	Less than -20 ⁰ C
Flash point	Approximately 120 ⁰ C
pH Value	Not available
Evaporation rate	Not available
Flammability	Combustible liquid
Auto ignition temperature	Not available
Flammable limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Decomposition temperature	Not available
Solubility in water	Completely soluble
Biodegradability	Biodegradable

Section 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use

Chemical Stability: Stable under normal conditions of storage and handling.

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Heat, direct sunlight, open flames or other sources of ignition.

Materials to avoid: Strong oxidizing agents and materials reactive with Hydroxyl compounds.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral:

LD50 (Rat): 7,712 mg/kg

Remarks: Estimated fatal dose in human is 100ml

Inhalation:

LC50 (Rat): > 2.5 mg/l

Exposure time: 6 h

Dermal:

LD50 (Mouse): > 3,500 mg/kg

Skin corrosion/irritation :

No skin irritation



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Serious eye damage/ eye irritation :	No eye irritation
Respiratory/Skin sensitization :	N/A
Carcinogenicity:	No evidence of carcinogenicity in animal studies
Germ cell mutagenicity :	N/A
Reproductive toxicity :	N/A
Specific target organ toxicity single exposure :	May cause damage to organs
Specific target organ toxicity repeated exposure :	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard :	N/A

Section 12. ECOLOGICAL INFORMATION

TOXICITY :

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 72,860 mg/l. Exposure time: 96 h .

Toxicity to algae: LC50 (Scenedesmus quadricauda (Green algae)): 72,860 mg/l. Exposure time: 96 h

Toxicity to microorganism: (Pseudomonas putida:> 10,000mg/l. Exposure time: 16h

PERSISTENCE AND DEGRADABILITY : Readily biodegradable

BIOACCUMULATION POTENTIAL : Low bioaccumulation potential

MOBILITY IN SOIL : High mobility in soils

Section 13. DISPOSAL CONSIDERATIONS

Disposal method:

Waste from residues

At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant.

Dispose in accordance with all national and local environmental regulations.

Empty containers should be recycled or disposed of through an approved waste management facility.

Disposal methods identified are for the product as sold.

For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging:



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Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose in accordance with all national and local environmental regulations.
Empty containers should be recycled or disposed of through an approved waste management facility.

Section 14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by Road, Rail and Sea.

IATA: Not regulated

IMDG: Not regulated

U.N Number

Not Available

U.N Proper Shipping Name

Not available

Class

Not available

Subsidiary Risk

Not available

Packing Group

Not available

Marine Pollutant

Not available

Hazchem Code

Not available

Transport information: Not classified as Dangerous Goods according to Australian Code for the Transport of Dangerous Goods by Road, Rail and Sea.

Section 15. REGULATORY INFORMATION

Poisons Schedule: S5

Section 16. OTHER INFORMATION

Abbreviations and acronyms

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.

AICS: Australian Inventory of Chemical Substances.

CAS Number: Chemical Abstracts Service Registry Number.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.

HSIS: Hazardous Substances Information System

NOHSC: National Occupational Health and Safety Commission.



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NTP: National Toxicology Program (USA).

SDS: Safety Data Sheet

TWA: Time Weighted Average.

UN Number: United Nations Number.

Literature References:

Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (December 2011 – Safe Work Australia)

GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia)

Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012. Safe Work Australia.

Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition.

“Australian Exposure Standards”

List of Designated Hazardous Substances [NOHSC:10005(1999)]

Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition.

Standard for the Uniform Scheduling of Medicines and Poisons 2015.

Material Safety Data Sheets – individual raw materials – Suppliers.

Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]

HSIS – Hazardous Substance Information System – National Worksafe Data Base.

LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 2011

IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012

Disclaimer: It is believed that the information given in this bulletin is accurate at the issue date. It is offered in good faith, but without guarantee and without acceptance of responsibility for its accuracy.

Lubrimaxx pursues a policy of ongoing research and development aimed at product improvement and therefore may change the formulation, specification and characteristics of its products without notice.

It is the user’s responsibility to verify the current formulation, specification or characteristics of a product, and to ascertain that it is suitable for an intended use or application.

End of SDS