



SAFETY DATA SHEET

RADIATOR FLUSH

Version 3.0

Date of Issue: 28.2.2017

Section 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Radiator Flush
Product Code	717
Product Uses	Additive
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 72 300 Malaysia- + 603 55112346
Internet Website:	www.lubrimaxx.com

Section 2. HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulations.

GHS Classification

Skin Corrosion/ Irritation - Category 1B
Eye Corrosion/ Irritation - Category 1
Acute toxicity - Category 4

GHS element, including precautionary statements

Symbol:



Signal Word: Danger

Hazard statement:

H304 May be fatal if swallowed and enter airways
H315 Causes skin irritation
H302 Harmful if swallowed

Precautionary Statements

Prevention

P280 Wear protective gloves/eye protection/face protection/mask
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P264 Wash effected area thoroughly after handling
P271 Use only outdoors or in well ventilated area



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Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P321	Specific treatment
P332+P313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P301+P312	IF SWALLOWED: CALL a POISON CENTER or doctor
P330	Rinse mouth

Storage

P405 Store locked up

Disposal

P501 Dispose of contents/container according to local authority

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Name	CAS Number	Proportion (%)
Sodium Metasilicate	6834-92-0	<20
Non hazardous ingredient	N/A	<80

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: 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. If symptoms persist seek medical attention.

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



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Most important symptoms/effects, acute and delayed

Skin contact: Irritating to skin

Eye contact: May cause slight irritation

Inhalation: In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from contaminated zone, keep warm and allow to rest.

Ingestion: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours) Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Abdominal pain. May cause central nervous system depression

Indication of immediate medical attention and special treatment, if necessary

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.

Section 5. FIRE FIGHTING MEASURES

Extinguishing Media:

Use media appropriate for surrounding fire

Specific hazard arising from the chemical: Depending on combustion conditions, a complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot will be evolved. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Special protective actions for fire-fighters: Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection:

Wear appropriate protective equipment as in section 8 below to prevent skin. Remove of ignition sources and provision of sufficient ventilation.

Emergency Procedures:

In the event of a spill or accidental release, notify the authorities in accordance with all applicable regulations. Personnel involved in clean up required to wear appropriate personal protective equipment and clothing to minimize exposure. Wet material is slippery under foot

Environmental precaution: This material is alkaline. Isolate the spillage and prevent the



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material to enter drains, sewers, waterways and soil Dispose of waste according to federal, Environmental Protection Authority and state regulations.

Method and materials for containment and cleaning up: Flush spill area with water, if appropriate. Contain spillage, and then collect with non-combustible absorbent material, (e.g sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling: Wear appropriate protective equipment as in section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Wet material may pose a slipping hazard. Do not allow splash loading and ensure that the product is poured slowly. Do not smoke

Conditions for Safe Storage: This product is a hydrocarbon-based liquid that will burn if preheated. Keep in a dry, cool and well-ventilated place. Store at room temperature. Keep containers tightly closed and properly labelled. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: Exposure standards for the product have not been established. However in the operation of certain equipment or at elevated temperature, if oil mists or aerosols are generated the following Exposure Standard should be observed:

TWA: $2\text{mg}/\text{m}^3$

Engineering Controls: Use only in well ventilated areas.

Eye Protection: Avoid contact with the eyes. Wear safety glasses or face shield to avoid eye contact or splashing.

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

Body Protection: Not normally required. Where splashing is possible suitable work wear should be worn to protect personal 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



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Appearance	yellow liquid
Odour	Not available
Odour Threshold	Not data available
pH	9 -10
Boiling Point	Not data available
Melting Point	Not data available
Flash point	Not data available
Specific Gravity	1 - 1.1 at 25 ⁰ C
Flammability	Not available
Auto ignition temperature	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flammable limits	Not available
Solubility in water	Completely soluble

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: Keep away from strong oxidising agents, such as strong acids, chlorates, nitrates and peroxides. Hazardous polymerisation does not occur

Conditions to avoid: Acid. Do not heat the container

Materials to avoid: Strong oxidizing agents and strong acid

Hazardous decomposition products: Oxides of Carbon and Nitrogen, smoke and other toxic fumes

11. TOXICOLOGICAL INFORMATION

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity:	Category 4 - Harmful if swallow. It may cause slight irritation to the mouth, throat and digestive tract.
Skin corrosion/irritation :	Data is not available
Serious eye damage/ eye irritation :	Category 1B - may be mildly irritating to the eyes
Respiratory/Skin sensitization :	Category 1 - May be mild irritating on skin
Carcinogenicity:	Data is not available
Germ cell mutagenicity :	Data is not available
Reproductive toxicity :	Data is not available
Specific target organ toxicity single	Data is not available



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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

NTP: National Toxicology Program (USA).

PPE: Personal Protective Equipment.

SDS: Safety Data Sheet

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons

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”

Model Work Health and Safety Regulations.

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.

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.



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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****