



SAFETY DATA SHEET

compiled according to Safe Work Australia and the GHS

Revision Date: 08-Dec-16


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1. IDENTIFICATION

Product Identifier	ENGINE FLUSH AID
Product Code	399
Other Means of Identification	Automotive Radiator Cleaner
Recommended Use of the Chemical and Restriction on Use	Automotive radiator system flush and descaler concentrate
Details of Manufacturer or Importer	Lidomont Pty. Ltd., trading as Bimrose Lubricants 15 Pinnacle Street, Brendale, Queensland, 4500
Phone	07 3881 1733 (+61 7 38811733 – International)
Emergency Telephone	000 (Australia Only)
Poisons Information Centre Phone	13 11 26

2. HAZARDS IDENTIFICATION

Physical Hazard(s)	Classified as Hazardous according to Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria. Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Health Hazard(s)	Skin Corrosion Category 1A
Environment Hazard(s)	
GHS Label Elements	
Signal Word	DANGER

Hazard Statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary Statement(s): General

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

Precautionary Statement(s): Prevention

P260 Do not breathe dust/fume/gas/mist/vapour/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

Precautionary Statement(s): Response

P301+P330+P331 If SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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- P305+P351+P338** If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310** Immediately call a POISON CENTER or doctor/physician.
- P321** Specific treatment – see label.
- P363** Wash contaminated clothing before reuse.

Precautionary Statement(s): Storage

- P405** Store locked up.

Precautionary Statement(s): Disposal

- P501** Dispose of contents/container as hazardous waste in accordance with local regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Sodium Hydroxide	1310-73-2	<2%
Ingredients determined not to be hazardous including water		to 100%

4. FIRST AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

Skin contact

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its 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.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Advice to Doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment

Use water spray, foam, carbon dioxide or dry chemical powder.



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Specific hazards arising from the chemical

Under fire conditions this product may emit toxic and/or irritating fumes and gases including oxides of carbon, phosphorus and nitrogen.

Special protective equipment and precautions for firefighters

Fire fighters should wear Self- Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat- exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear Safe Work Australia approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental precautions

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and materials for Containment and cleaning up

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Use appropriate personal protective equipment – see Section 8. Use safe work processes to avoid eye or skin contact and inhalation of vapours. Use only in well ventilated areas. Do not store in contact with food, beverages or tobacco products. Eating drinking or smoking in areas where this product is stored or processed should be prohibited. Always wash thoroughly after handling. Wash contaminated clothing and other protective equipment before storage or reuse. Provide eyewash fountains and safety showers in close proximity to points of use.

Conditions for safe storage

Store in accordance with local regulations in a cool, dry and well ventilated area. Store in original container tightly closed and away from incompatible materials (see Section 10). Check regularly for leaks and physical damage. Opened containers should be carefully resealed and stored in an upright position. Empty containers may contain residues and be dangerous. Store and use only in equipment designed for use with this type of product. Use appropriate bunding or containment to prevent environmental contamination.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

No exposure standards have been established for this material by Safe Work, Australia.

Engineering controls

Engineering controls should be in place as a primary source of protection over the use of Personal Protective Equipment. Ensure adequate ventilation of the working area or provide exhaust ventilation to keep the relevant airborne concentrations below acceptable levels.



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Individual protection measures

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye and face protection: If contact is likely, safety glasses with side shields are recommended.

Skin protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include chemical resistant, nitrile or viton. Long sleeve and long pants will provide protection.

Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. A particulate type respirator should be considered for this material. No special requirements under ordinary conditions of use and with adequate ventilation. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practise good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form	Clear liquid
Colour	Colourless
Odour	Slight
Odour Threshold	Not determined
pH-Value	11 - 13
Melting point/Melting range	No information available
Initial Boiling Point/Boiling Range	No information available
Flash Point	No information available
Flammability	Non-flammable, non-combustible
Auto-ignition Temperature	No information available
Decomposition Temperature	No information available
Explosion Limits: Lower	Not applicable
Upper	Not applicable
Vapour Pressure at 20 °C	No information available
Relative Density at 15 °C	1.00 – 1.02
Vapour Density	No information available
Evaporation Rate	Not applicable
Solubility in Water	Soluble
Viscosity at 40 °C	~1 cSt (Water)



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10. STABILITY AND REACTIVITY

Reactivity: Will not occur.

Chemical stability: Stable at ambient temperature and under normal conditions of use.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat. Direct sunlight.

Incompatible materials: Strong acids and oxidisers.

Hazardous decomposition products: Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon dioxide and oxides of phosphorus and nitrogen.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50/LC50 values relevant	
<i>Oral LD 50</i>	Not available
<i>Dermal LD50</i>	Not available
<i>Inhalation LC50</i>	Not available
Acute Health Effects	
<i>Inhalation</i>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
<i>Skin</i>	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
<i>Eye</i>	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
<i>Ingestion</i>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin Corrosion / Irritation	Causes severe skin burns.
Serious Eye Damage / Irritation	Causes eye damage.
Respiratory or Skin Sensitisation	Based on classification principles, the classification criteria are not met
Germ Cell Mutagenicity	Based on classification principles, the classification criteria are not met
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Based on classification principles, the classification criteria are not met
Specific Target Organ Toxicity (STOT) -	
<i>Single Exposure</i>	Based on classification principles, the classification criteria are not met
<i>Repeated Exposure</i>	Based on classification principles, the classification criteria are not met
Aspiration Hazard	Based on classification principles, the classification criteria are not met
Chronic Health Effects	No information available
Existing Conditions Aggravated by Exposure	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is moderately alkaline. If large spills occurred a water pH rise could be responsible for an environmental effect on aquatic organisms. Prevent this material entering waterways, drains and sewers.



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Persistence and degradability: Surfactants are not considered to be readily biodegradable to AS4351.

Bioaccumulative Potential: Limited potential for bioaccumulation.

Mobility in soil: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal method and Containers

Dispose according to applicable local and state government regulations.

Empty containers may contain residue and can be dangerous. Packaging should be recycled and disposal via incineration or landfill should only be considered when recycling not possible. Do not pressurize, cut, weld, braze, solder, drill grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

Special precautions for incineration or landfill

Consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

	Australian Dangerous Goods (ADG)	International Maritime Dangerous Goods (IMDG)	International Air Transport Association (IATA)
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	n/a	n/a	n/a
Dangerous Goods Class	n/a	n/a	n/a
Packing Group	n/a	n/a	n/a

Special precautions for user

None Available

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) – Poison Schedule

S5

Australian Inventory of Chemical Substances (AICS)

All components are listed or exempt

Classified as hazardous according to criteria of NOHSC

Irritant.

16. OTHER INFORMATION

Creation Date 8/12/2016

Revision information

Date and Changes: none

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Abbreviations Used

GHS, Globally Harmonised System of Classification and labelling of Chemicals

CAS, Chemical Abstracts Service (Division of American Chemical Society)

LC50, Lethal concentration 50%

LD50, Lethal dose 50%

STEL, Short Term Exposure Limit

TWA, Time Weighted Average

UN, United Nations

n/a, not applicable

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of practice for the Preparation of Safety Data Sheets for Hazardous Chemicals – December 2011. The information and recommendations contained herein are, to the best of Lidomont Pty Ltd knowledge and belief, accurate and reliable as of the date issued. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. You can contact Lidomont Pty Ltd to ensure that this document is the most current available from Lidomont Pty Ltd. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.