

SAFETY DATA SHEET



Product: BAC ATTACK

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--------------------------------|---|-----------------------|---------------------|
| Trade Name: | BAC ATTACK | | |
| SUPPLIER: | BUSHBY CLEANING PRODUCTS | | |
| ADDRESS: | 21 Activity Crescent, Molendinar Qld 4214 | | |
| TELEPHONE: | 07 5539 2244 | FAX: | 07 5539 2477 |
| AH EMERGENCY TELEPHONE: | 13 1126 in Australia | Product Code: | |
| Substance: | Water based | Product Use: | Moss and algae. |
| Creation Date: | AUGUST 2016 | Revision Date: | AUGUST 2021 |

SECTION 2 – HAZARDS IDENTIFICATION

| | |
|---|--|
| Classification of the substance or mixture | |
| GHS - GLOBALLY HARMONISED SYSTEM | |
| GHS Classification | Skin Corrosion – Category 2 Eye Damage - Category 1 Acute Aquatic Toxicity - Category 2 |
| GHS Pictogram | |
| GHS Signal Word | DANGER |
| Hazard statement(s) | |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H401 | Toxic to aquatic life. |
| 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 | |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves/eye protection/face protection. |
| Precautionary statement(s): Response | |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| 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. |
| P310 | Immediately call a POISON CENTRE or doctor/physician. |
| Precautionary statement(s): Storage | |
| | None allocated. |
| Precautionary statement(s): Disposal | |
| | None allocated. |

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| ADG CODE DANGEROUS GOODS | | | |
|--------------------------|--|---------------------|----------------|
| UN Number | none allocated | ADG Classification | none allocated |
| Shipping Name | none allocated | ADG Subsidiary Risk | none allocated |
| Hazchem Code | none allocated | Packing Group | none allocated |
| POISON SCHEDULES | | | |
| SUSMP Classification | S5 (QUATERNARY AMMONIUM COMPOUNDS >5%) | | |
| EMERGENCY OVERVIEW | | | |
| Colour | Green | Odour | Faint |
| Physical Description | Liquid | Viscosity | Non-viscous |
| Major Health Hazards | None known | | |
| Note | | | |
| IMPORTANT | This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:5 or greater with water, they no longer apply. However, ensure good hygiene and housekeeping practices are adhered to. | | |

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

| Ingredients: | CAS Number: | Proportion: |
|--|---|-------------|
| Alcohol ethoxylate | 68439-50-9 | < 10% w/w |
| Quaternary ammonium compounds | 63449-41-2 | < 10 % w/w |
| Ingredients determined to be non-hazardous | various | < 10 % w/w |
| Water | 7732-18-5 | To 100% w/w |
| NOTE: | Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects. | |

SECTION 4 – FIRST AID MEASURES

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|--------------------------------------|---|
| Scheduled Poisons | Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766). |
| First Aid Facilities Required | Ensure there is access to eye washes. |
| Inhalation | Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur. |
| Skin contact | Wash skin with plenty of water. Seek medical advice (e.g. doctor) if irritation, burning or redness develops. |
| Eye contact | Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist). |
| 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 medical advice (e.g. doctor). |

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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

Suitable extinguishing equipment / media

Extinguish media Use an extinguishing media suitable for surrounding fires.

Special hazards arising from the chemical

Fire incompatibility No known incompatibility

Special protective equipment and precautions for fire fighters

Fire Fighting

- Alert Fire Brigade and tell them the location and the nature of the hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent spillage from entering drains or watercourse.
- Cool hot containers with water spray.

Fire/Explosion Hazard If involved in a fire will emit toxic fumes. Containers may explode on heating.

Flash Point Does not support combustion.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Emergency Procedures

- No HAZCHEM code.

Minor spills

- Clean up spills immediately.
- Avoid contact with skin and eyes.
- Use Personal Protective Equipment.
- Contain and absorb spill with vermiculite or other suitable material.
- Sweep or wipe up.
- Place in a suitable container for disposal.

Major spills

- Clear area of personnel.
- Use Personal Protective Equipment.
- Prevent spill from entering drains or watercourse.
- If contamination occurs contact emergency services.
- Contain and absorb spill with vermiculite or other suitable material.
- Label collected material for disposal.
- Decontaminate if necessary (see section 13).
- Launder and clean all protective equipment prior to being re-used.

Environmental precautions

- Use appropriate containment to avoid environmental contamination.
- Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.
- DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT.
- Inform local authorities if this occurs.

Methods and materials for containment and cleaning up

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- Avoid contact with spilled or released material.
- Shut off leaks, if possible without personal risks.
- Isolate hazard area and deny entry to unnecessary or unprotected personnel.
- Personal protective equipment advice is contained in Section 8 of the SDS.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- Wear prescribed protective clothing.
- Do NOT eat, drink or smoke when handling.
- Wash hands after use.
- Keep containers closed tightly when not in use.
- Store in accordance to manufacturers instructions.

Other information

- Store in original containers.
- Store in a cool, dry, well ventilated area out of direct sunlight.

Conditions for safe storage, including any incompatibilities

Storage

Store in a cool, dry place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (section 10). Keep containers closed at all times – check regularly for leaks.

Suitable container

Store in original containers provided by the manufacturer.

Storage incompatibility

Store in a well-ventilated area, away from sunlight. Do not store near strong oxidants.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

See Ingredients Data and Emergency Limits below.

Ingredients data

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Australian Exposure Standards | Not available | Not available | Not available | Not available | Not available | Not available |

Emergency limits

| Ingredient | TEEL-0 | TEEL-1 | TEEL-2 | TEEL-3 |
|------------|--------|--------|--------|--------|
| | | | | |

IDLH data

| Ingredient | Original IDLH | Revised IDLH |
|------------|---------------|--------------|
| | | |

PERSONAL PROTECTION PPE

Ventilation

Use in a well-ventilated area. Ensure ventilation is adequate to maintain air concentrations below exposure standards.

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Personal Protective Equipment

Use good occupational work practice.
The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

Eye Protection



Eye and face protection recommended.
The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.

Skin Protection



Gloves are recommended.
Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

Protective Material Types

Material suitable for mild detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.

Respirator

Generally not required to handle the product as per label directions.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|-----------------------------|--|---------------------|
| Physical State | Non-viscous liquid | Colour | Green |
| Odour | faint | Specific Gravity | 1.00 – 1.02 @ 25 °C |
| Boiling Point | Approximately 100 °C | Freezing Point | Approximately 0 °C |
| Vapour Pressure | Not available | Vapour Density | Not available |
| Flash Point | Not flammable | Flammable Limits | Not available |
| Water Solubility | Miscible in all proportions | pH | 7.0 – 7.5 neat |
| Volatile Organic Compounds (VOC) | 0 % v/v | Coefficient of Water/Oil Distribution | Not available |
| Viscosity | Not available | Odour Threshold | Not available |
| Evaporation Rate | Not available | Per Cent Volatile | Ca 90 % v/v |

SECTION 10 – STABILITY AND REACTIVITY

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|---|--|
| Reactivity | Stable at normal temperatures and pressure. |
| Chemical stability | Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Conditions to avoid | No special requirements. |
| Incompatible materials | None known. |
| Hazardous decomposition products | Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours. |
| Hazardous Reactions | None known. |

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

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No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

| | |
|---------------------|---|
| Inhaled | Inhalation over exposure may result in mucous membrane irritation of the respiratory tract and coughing. |
| Ingestion | Ingestion may result in irritation to the mouth and throat, nausea, vomiting. |
| Skin Contact | Skin contact may result in mild irritation. Severity depends on the concentration and duration of exposure. |
| Eye | A severe eye irritant capable of causing severe conjunctivitis. Corneal damage may develop, with possible impairment of vision, if not promptly and adequately treated. |
| Chronic | No known effects. |

| | | |
|-------------------|---|--|
| BAC ATTACK | TOXICITY LD50 calculated >3,000mg/kg not toxic | IRRITATION Cat 1 eye irritation Cat 2 skin irritation |
|-------------------|---|--|

CLASSIFICATION OF INDIVIDUAL INGREDIENTS

NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical.

See SECTION 3 for actual proportions of ingredients present in this product.

Individual constituents

Alcohol ethoxylate

| | | | |
|--|---|---------------------------------|--|
| Acute Toxicity | LD50 Oral Rat - Male, Female 1200 mg/kg | Carcinogenicity | Not listed as a carcinogen NTP, IARC, OSHA, EPA. |
| Skin Irritation/Corrosion | LD50 Dermal Rat - Male, Female >2000 mg/kg | Reproductivity | No data available |
| Serious Eye Damage/Irritation | EYE IRRITATION: Severe eye irritant | STOT – Single Exposure | No data available |
| Respiratory or Skin sensitivity | No data available | STOT – Repeated Exposure | No data available |
| Mutagenicity | No data available | Aspiration Hazard | No data available |

QUATERNARY AMMONIUM COMPOUNDS

| | | | |
|--|--|---------------------------------|--|
| Acute Toxicity | Acute oral toxicity (LD50): 240 mg/kg [Rat]. | Carcinogenicity | Not listed as a carcinogen NTP, IARC, OSHA, EPA. |
| Skin Irritation/Corrosion | Skin – moderate irritant (rabbit) Eyes – severe irritant (rabbit) | Reproductivity | No data available |
| Serious Eye Damage/Irritation | YES | STOT – Single Exposure | No data available |
| Respiratory or Skin sensitivity | YES | STOT – Repeated Exposure | No data available |
| Mutagenicity | No data available | Aspiration Hazard | No data available |

SECTION 12 – ECOLOGICAL INFORMATION

| | |
|-----------------------------|---|
| General | No single ingredient (over 1%) recognised as environmental pollutant. Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs. |
| Aquatic Toxicity | |
| BAC ATTACK (as sold) | Acute Toxicity to fish (calculated from ingredients) : LC50: 4 - 5 mg/L Acute Aquatic Category 2 - Toxic to aquatic life. LC50 < 10 , but >1 mg/L. Biodegradable. |

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|---|---|-------------------------|
| BAC ATTACK (at use dilution 1:100 rinse) | Acute Aquatic Toxicity (Calculated) LC50: 400 - 500 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS – Not harmful to aquatic life. LC50 > 100mg/L. Biodegradable | |
| Persistence and degradability | Persistence: Water/Soil | Persistence: Air |
| | biodegradable. | Not Available |
| Bio accumulative potential | No bioaccumulation is expected. | |
| Mobility in soil | Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment. | |

SECTION 13 – DISPOSAL CONSIDERATIONS

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|---------------------------------------|---|
| Product and Packaging Disposal | Dispose of contents/container to chemical landfill. Consult local or regional waste management authority for further details. |
|---------------------------------------|---|

SECTION 14 – TRANSPORT INFORMATION

| | |
|---------------------------------------|----------------|
| Labels Required | |
| ADG | None allocated |
| Marine Pollutant | no |
| HAZCHEM | None allocated |
| Land Transport (ADG) | |
| UN number | None allocated |
| Packing group | None allocated |
| UN proper shipping name | None allocated |
| Environmental hazard class(es) | None allocated |
| Transport hazard class(es) | None allocated |
| Special precautions for user | None allocated |

SECTION 15 – REGULATORY INFORMATION

| | |
|---------------------------|---|
| Labeling Details | |
| GHS Classification | Skin Corrosion – Category 2 Eye Damage - Category 1 Acute Aquatic Toxicity - Category 2 |
| SUSMP | S5 |
| ADG Code | nil |
| AICS | All ingredients present on AICS. |

SECTION 16 – OTHER INFORMATION

| | |
|-----------------------------------|--|
| Issue Date | 6 th August 2016 |
| Version Number | V 2.0 |
| Abbreviations and acronyms | ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail. AICS: Australian Inventory of Chemical Substances. |

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|------------------------------|--|
| | <p>CAS Number: Chemical Abstracts Service Registry Number.</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.</p> <p>HSIS: Hazardous Substances Information System</p> <p>IARC: International Agency for Research on Cancer.</p> <p>NOHSC: National Occupational Health and Safety Commission.</p> <p>NTP: National Toxicology Program (USA).</p> <p>SDS: Safety Data Sheet</p> <p>STEL: Short Term Exposure Limit.</p> <p>SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p>TWA: Time Weighted Average.</p> <p>UN Number: United Nations Number.</p> |
| Literature references | <p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (December 2011 – Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012. Safe Work Australia.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition. “Australian Exposure Standards”</p> <p>List of Designated Hazardous Substances [NOHSC:10005(1999)]</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition.</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons 2015.</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers.</p> <p>Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]</p> <p>HSIS – Hazardous Substance Information System – National Worksafe Data Base.</p> <p>LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 2011</p> <p>IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012</p> |
| Risk assessments | <p>This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.</p> |
| Disclaimer | <p>This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.</p> |
| Note | <p>Safety Data Sheets are updated frequently.</p> <p>Please ensure that you have a current copy.</p> |
| Copyright | <p>This document is copyright.</p> |
| End of SDS | |