

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Aqueduct Flex Granular

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Wetting agent
Restrictions on use : No additional information available

1.4. Details of manufacturer or importer

Supplier

Aquatrols Europe Ltd
Blackbox
Beech Lane
Wilmslow
Cheshire
SK9 5ER, UK
T: +44 (0) 1233 633267
E-mail: SDS@aquatrols.com

Distributor

Turfcare Australia
115 Pitt Town Rd
McGraths Hill NSW 2756
Australia
T: 02 4571 6444

1.5. Emergency phone number

Emergency number : Chemtrec: (800) 424-9300 (United States and Canada), Chemtrec International: +1-703-527-388; Australian Poisons Information Centre: 13 11 26

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Not classified

2.2. GHS Label elements, including precautionary statements

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

This mixture does not contain any substances to be mentioned according to the applicable regulations

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.
First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact : Gently wash with plenty of soap and water. Get medical attention if symptoms occur. Take off contaminated clothing and wash it before reuse.

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First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
Symptoms/effects after skin contact	: Prolonged or repeated contact may cause skin to become dry. Redness. Itching. Slight irritation.
Symptoms/effects after eye contact	: Dust from this product may cause eye irritation. Redness. Itching. Lacrimation. Blurred vision.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea.

4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam. Use extinguishing agent suitable for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Presents no particular fire or explosion hazard. Burning produces stinking and toxic fumes.
General measures	: Avoid all contact with skin, eyes, or clothing. Do not breathe dust.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Evacuate the danger area. Fight fire from safe distance and protected location. Move containers from fire area if it can be done without personal risk. Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid all contact with skin, eyes, or clothing. Do not breathe dust.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No action shall be taken without appropriate training or involving any personal risk. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid creating or spreading dust. Do not breathe dust.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment.
Emergency procedures	: Do not touch spilled material. Ventilate area. Avoid dust formation. Avoid breathing dust.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment	: Stop leak without risks if possible.
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| Methods for cleaning up | : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Minimise generation of dust. Ventilate spillage area. Clean contaminated surfaces with an excess of water. Never return unused material to original container. |
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Precautions for safe handling | : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

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| Storage conditions | : Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Incompatible materials. Store in a dry place. |
| Incompatible products | : Strong oxidizing agents. Strong bases. Protect from moisture. |

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

No additional information available

8.2. Monitoring methods

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| Monitoring methods | : Refer to all applicable national, international and local regulations or provisions. |
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8.3. Engineering controls

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| Appropriate engineering controls | : Handle in accordance with good industrial hygiene and safety procedures. Ensure exposure is below occupational exposure limits (where available). Avoid all unnecessary exposure. Ensure good ventilation of the work station. |
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8.4. Individual protection measures, such as personal protective equipment (PPE)

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| Personal protective equipment | : Wear recommended personal protective equipment. |
| Hand protection | : Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer |
| Eye protection | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing. Chemical resistant safety shoes |
| Respiratory protection | : No respiratory protection needed under normal use conditions. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material |
| Environmental exposure controls | : Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil. Avoid release to the environment. |

SECTION 9: Physical and chemical properties

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| Physical state | : Solid |
| Appearance | : granular. |
| Colour | : Brown |
| Odour | : slight |
| Odour threshold | : No data available |
| pH | : No data available |
| pH solution | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point / Freezing point | : No data available |

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Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Flammability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: Dispersible (partial solubilisation) in: Water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport. No dangerous reactions known.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation: Will not occur.
Conditions to avoid	: Heat. Extremely high or low temperatures. Moisture.
Incompatible materials	: Strong bases. Strong oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	10200 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Other information	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

SECTION 12: Ecological information

Environmental hazard classification is not part of the Australian Work Health and Safety (WHS) Regulations. However, environmental and ecological information is provided in accordance with the Code of Practice for the Preparation of Safety Data Sheets

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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according to the Work Health and Safety (WHS) Regulations

Aqueduct Flex Granular	
LD50 oral rat	10200 mg/kg

12.2. Persistence and degradability

Aqueduct Flex Granular	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Aqueduct Flex Granular	
Bioaccumulative potential	No data available concerning bioaccumulation.

12.4. Mobility in soil

Aqueduct Flex Granular	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available.

Aqueduct Flex Granular	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Waste treatment methods : Dilute with water. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Do not dispose of waste into sewer.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

Specific storage requirement : No data available
Shock sensitivity : No data available

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14.7. Additional information

Other information : No supplementary information available

Transport by road and rail
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)
Australian Inventory of Industrial Chemicals (AICIS : All the chemicals contained in this product are listed introductions
Inventory) status

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
Not applicable

Australian Pesticides and Veterinary Medicines Authority (APVMA)
Not applicable

15.2. International agreements

No additional information available

SECTION 16: Other information

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Classification	
Not classified	

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.