

SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Splash n Dash: Formulation Benzalkonium Chloride 10% (aq)
SYNONYMS:
PROPER SHIPPING NAME:
CAS NUMBER:
UN NUMBER:
PRODUCT USE: Mould and moss removal from paving and driveways.

SUPPLIER: Agmax Industries Limited, 63b Allens Road, East Tamaki, 2013, Auckland
 Telephone: +64 9 271 5290

24 H Emergency Contact: 0800 243 622 (24 Hours)
Website: www.agmax.co.nz
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SECTION 2 : HAZARDS IDENTIFICATION**STATEMENT OF HAZARDOUS NATURE**

Classified as a hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

PICTOGRAMS

GHS Class	HSNO Class	Signal Word	Hazard Statement
6.1D	Acute Toxicity/Oral	Warning	H302 Harmful if swallowed
6.5A	Respiratory sensitizer	Danger	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
6.5B	Contact sensitizer	Warning	H317 May cause an allergic skin reaction
6.9B	Dermal-single exposure	Warning	H371 May cause damage to organs
6.9B	Dermal-repeated exposure	Warning	H373 May cause damage to organs through prolonged and repeated exposure
8.2C	Corrosive to dermal tissue	Danger	H314 causes severe skin burns
8.3A	Corrosive to eye tissue	Danger	H318 causes serious eye damage
91B	Ecotoxic to aquatic life	N/A	H411 Toxic to aquatic life with long lasting effects
9.3C	Harmful to terrestrial vertebrates	N/A	H433 Harmful to terrestrial vertebrates

SAFETY DATA SHEET

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Prevention statements:

- P102 Keep out of reach of children
- P103 Read label before use
- P260 Do not breathe fume/mist/vapours/spray
- P264 Wash any exposed parts of body thoroughly after handling.
- P270 Do not eat, drink, or smoke when using this product
- P273 Avoid release to the environment
- P280 Wear protective gloves/clothing/eye protection/face protection
- P285 In case of inadequate ventilation wear respiratory protection

Response statements:

- P101 If medical advice is needed, have product container or label at hand
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- P304 + P340 + P341 IF INHALED: Remove to fresh air, especially if breathing is difficult, and keep at rest in a position comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
- P321 For skin contact rinse with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

Storage statements:

- P405 Store locked up.

Disposal statements:

- P501 Dispose of empty containers safely in appropriate landfill in accordance with local regulations.

SECTION 3 : COMPOSITION

Appearance:

Ingredient	CAS Number	Content (% w/w)
Synthecol Quad LF (Benzalkonium Chloride (aq) 50% w/w)	8001-54-5	20.0
Water		80.0

SECTION 4 : FIRST AID MEASURES

If medical advice is needed, have product label at hand. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

SWALLOWED

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

EYE

If eye contact occurs, rinse eyes cautiously with plenty of water for several minutes holding eyelids open if necessary. Remove any contact lenses if easy to do so, continuing to rinse. If eye irritation persists, seek medical assistance.

SKIN

If skin irritation occurs wash immediately with soap and water. Take off contaminated clothing and wash before reuse. Get medical advice or attention.

INHALED

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

SECTION 5 : FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA**

Compatible with all usual extinguishing media, but for safety reasons **do not** use high volume water jet.

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF

In the event of fire, toxic fumes are emitted from its combustion products.

SPECIAL PROTECTIVE EQUIPMENT

Firefighters should use self-contained breathing apparatus and protective clothing in case of fire.

FURTHER INFORMATION

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Vigorous flushing with water will cause foam.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**SPILLS AND DISPOSAL**

Remove leaking containers to a detached area. Bund spill area and recover - consider recycling. Contain spill with inert material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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ENVIRONMENTAL PRECAUTIONS

Do not discharge into the subsoil/soil. Do not allow to enter watercourses or drains.

ADDITIONAL INFORMATION

Floors will become slippery. Vigorous flushing may generate copious foam. Must not be released into sewers, drains, or wells. Personnel involved in clean-up require adequate respiratory, skin, and eye protection in case of large spillage. Clean equipment with water.

SECTION 7 : HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

The product should be stored, handled, and used in accordance with good industrial hygiene practices and in conformity with government regulations.

Ensure adequate ventilation.

Avoid direct contact with the substance.

Read label before use.

STORAGE CONDITIONS

Keep container tightly closed in a dry and well-ventilated place. Avoid elevated temperatures.

Reacts with copper, aluminium, zinc, and their alloys.

SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE LIMITS

No special measures necessary.

ENGINEERING CONTROLS

Provide eyewash station and safety shower.

HYGIENE MEASURES

Observe the usual precautions when handling chemicals.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Don not eat, drink, or smoke when using this product.

RESPIRATORY PROTECTION

If working in a confined space where ventilation is limited or a visible mist is being generated use approved half face respirator with combination cartridge filters suitable for vapours.

EYE PROTECTION

Safety glasses/goggles or face shield.

HAND PROTECTION

Suitable protective gloves (Nitrile rubber or butyl rubber).

SKIN AND BODY PROTECTION

Protective clothing, PVC apron and boots or full overalls.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear solution
Colour:	Colourless
Odour:	Slight odour
Flash point:	Inflammable
Autoignition temp:	Unknown
Specific Gravity:	
pH:	8.0
Water solubility:	Disperses in water.

SECTION 10 : STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Stable under normal temperatures and normal conditions of handling and storage.

INCOMPATIBLE MATERIALS

Mild steel, copper, copper alloys, strong acids.

THERMAL DECOMPOSITION

No decomposition if used as prescribed.

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic organic vapours/fumes, amines, CO, CO₂, nitrogen oxides, hydrogen chloride.

HAZARDOUS REACTIONS

No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11 : TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Mouse LD₅₀ 150 mg/kg (oral)
Rat LD₅₀ 1,420 mg/kg (dermal)

IRRITANT EFFECT ON SKIN

Causes burns to skin

IRRITANT EFFECT ON EYE

Corrosive

SENSITISATION EFFECTS

Respiratory: In acute cases pulmonary oedema resulted from aspiration, bronchoconstriction, cough can occur.

Contact: No significant irritation or sensitisation was found in subjects exposed to low concentrations of benzalkonium chloride.

MUTAGENIC EFFECTS

No data, not expected.

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CARCINOGENIC EFFECTS

No data, not expected.

SECTION 12 : ECOLOGICAL INFORMATION

AQUATIC TOXICITY

Considered to be very ecotoxic to the aquatic environment.

Fish: Fathead Minnow, acute duration 96 hr LC50 0.28 mg/L, chronic duration 34 days, LC50 0.0322 mg/L

Crustacean: Daphnia magna, duration 48 hr, EC50 0.0059 mg/L

Algae: Green algae, exposure 72 hr, EC50 0.08 mg/L

All rapidly biodegradable and non-bioaccumulative.

TERRESTRIAL VERTEBRATES TOXICITY

Considered to be harmful to terrestrial vertebrates.

Mouse: LD50 150 mg/kg.

SECTION 13 : DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Dispose of contents according to local body waste regulations. Disposal requirements for classes 8 and 9 - dispose of the substance in a landfill or incinerator. Avoid contaminating waterways.

CONTAINER DISPOSAL

Dispose of empty containers according to local body waste regulations.

SECTION 14 : TRANSPORT INFORMATION

Land: ADG, NZS5433, Air: IATA, Sea: IMDG

Proper Shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

Hazard Inducer: Benzalkonium Chloride 10%

Dangerous goods class: 8

U.N. Number: UN1903

Hazchem code: 2X

Packing group: II

Marine Pollutant: Yes

Special Precautions to Users: Corrosive

EMS: F-A, S-B

SECTION 15 : REGULATORY INFORMATION

HSNO. Approval Number: HSR006502

Tracking: Not required

Approved Handler: Not required

Poison Schedule (SUSMP): None allocated

National Chemical Inventories

AICS: All components are listed on the Australian Inventory of Chemical Substances

SECTION 16 : OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Since the actual use of this product is beyond the control of Agmax Industries, we make no warranty, expressed or implied, concerning the use of this product. It is the responsibility of users to ascertain that the product is suitable for intended applications.

Amendments: Updated formatting and reviewed data.

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