

1. Identification of the substance / preparation and the company

Identification of the product: Ayton Aquagrip KE95P Bitumen Emulsion

Product description: Cationic bitumen in water emulsion for use in highways maintenance and construction: slurry systems (slurry seals and microsurfacing)


Supplier: Ayton Products
 Browick Road
 Wymondham
 Norfolk NR18 0RJ
 Tel : 01953 602002
 Fax : 01953 609864

Emergency phone number: National Chemical Emergency Centre +44 1865 487333 (24 hours)

2. Hazards identification

The following classification and labelling is required by the Classification, Labelling and Packaging of Substances and Mixtures Regulation EC 1272/2008:



Pictogram: 

Signal word: Warning

Classification: Skin Irrit. 2 ; Eye Irrit. 2 ; Aquatic Chronic 3

Hazard statements: H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H412 Harmful to aquatic life with long lasting effects

Precautionary statements: P264 Wash thoroughly after handling
 P280 Wear protective gloves, clothing and eye protection
 P362 Take off contaminated clothing and wash before reuse
 P302 + P352 If on skin wash with plenty of soap and water
 P333 + P313 If skin irritation or rash occurs get medical advice attention
 P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
 P337 + P313 If eye irritation persists get medical advice / attention
 P273 Avoid release to the environment
 P501 Dispose of contents / container as hazardous waste

3. Composition / information on ingredients

Ayton Aquagrip KE95P bitumen emulsion comprises mainly of bitumen emulsified in water. Emulsifying agents and other additives are also present in small quantities.

The following components are present in significant concentrations:

Chemical Name	EC No	Hazard Classification	Hazard Statement	Concentration
Bitumen	232-490-9	Not classified	None	56 - 60 %
Water	231-791-2	Not classified	None	38 - 42 %

Polymer	-	Not classified	None	< 2 %
Tallow, trimethylpropylene diamine	Reach Reg 01-2119927329-31 EC Number 272-192-6 CAS Number 68783-25-5	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 M-factor (Acute): 10 M-factor (Chronic): 1	H302 Harmful if swallowed H314 Causes severe skin burns and eye damage H318 Causes serious eye damage H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects	< 0.9 %
Tallow oil, reaction products with tetraethylenepentamine	Reach Reg 01-2119487006-38 EC Number 271-417-5 CAS Number 68555-22-6	Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 M-factor (Acute): 10 M-factor (Chronic): 1	H314 Causes severe skin burns and eye damage H318 Causes serious eye damage H317 May cause an allergic skin reaction H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects	< 0.5 %
Phosphoric acid (as aqueous solution)	7664-38-2	Skin Corr. 1B	H314 Causes severe skin burns and eye damage	< 1.2 %

4. First-aid measures

Inhalation: No known hazard

Skin: Cold emulsion: wash with soap and water, if irritation persists seek medical advice
 Hot emulsion: rinse affected area with cold water, do not remove bitumen, seek medical advice

Eyes: Irrigate thoroughly with water, seek medical advice

Ingestion Do not induce vomiting, give water to drink, seek medical advice

5. Fire-fighting measures

Non-flammable water based emulsion

Dried film supports combustion

Use carbon dioxide, dry powder or foam extinguishers

6. Accidental release measures

Contain / absorb spillage with proprietary absorbent material, sand or earth

Transfer to waste site in sealed containers

Prevent entry into water courses or drains

Inform authorities if material enters drains or water courses

7. Handling and storage

Storage of bitumen emulsion should be in accordance with the Oil Storage Regulations:

- 200lt drum in drip tray with a capacity of 25% of the drum
- Storage tank: within impermeable bund with a capacity of not less than 110% of the volume of the storage tank

Protect from freezing conditions

Roll / invert containers before use and at regular intervals to prevent settlement

Bulk stores should be circulated / agitated before use

Hot emulsion must not be heated above 90 °C (boiling / frothing hazard)

8. Exposure controls and personal protection

Workplace Exposure Limits are listed in EH40 for bitumen (asphalt, petroleum fumes and hydrogen sulfide) but these are not generated from Ayton KE95P bitumen emulsion under normal storage and usage conditions

Asphalt petroleum fumes: LTEL 5 mg.m⁻³ STEL 10 mg.m⁻³

Hydrogen sulfide: LTEL 7 mg.m⁻³ STEL 14 mg.m⁻³

Wear rubber / PVC gloves, eye protection and protective clothing, use barrier cream on hands

9. Physical and chemical properties

Formula:	n/a	Flammability:	non-flammable, dried film will support combustion
Appearance:	brown/black liquid	Flash point:	n/a
Density:	0.95-1.05	Boiling point:	~100 °C
Odour:	characteristic	Acidity/alkalinity:	pH 2 to 5

10. Stability and reactivity

Conditions to avoid: Do not heat above 90 °C as boiling/frothing will result
Do not store below 2 °C to avoid freezing

Materials to avoid: alkalis (will cause emulsion to coagulate)

11. Toxicological information

Inhalation: not considered hazardous

Skin contact: due to small quantities of emulsifying agents and emulsion pH, skin contact may cause skin irritation or sensitisation. Hot emulsion can cause scalding

Eye contact: may cause serious eye irritation

Ingestion: minimal toxicity expected

12. Ecological information

Ayton Aquagrip KE95P bitumen emulsion contains components classified as dangerous for the environment:

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Air: water component will evaporate to air leaving a residual solid layer of bituminous binder

Water: emulsion will disperse in water and bituminous binder components will persist in environment for considerable period of time

Soil: will form a residual solid layer of bituminous binder on adsorption / evaporation of water component

13. Disposal considerations

Waste Ayton Aquagrip KE95P bitumen emulsion should be disposed of by a Registered Waste Disposal Contractor as hazardous waste HP14 – Ecotoxic using EWC Code 08 04 15*

14. Transport information

Ayton Aquagrip KE95P bitumen emulsion is not classified as hazardous for road transport

Bulk supplies to be labelled in accordance with Chemical Industries Association Black and White Marking Scheme:

Cold emulsion (< 55 °C): 2X BITUMEN EMULSION SKIN IRRITANT

15. Regulatory information

Users are advised to refer to the following legislation for further information:

CLP EC 1272 / 2008

REACH EC 1907 / 2006

Control of Substances Hazardous to Health Regulations 2002

EH40 (UK) Workplace Exposure Limits 2005 (3rd edition 2018)

Control of Pollution (Oil Storage) Regulations 2001

Environmental Permitting Regulations 2016

The Carriage of Dangerous Goods by Road Regulations (ADR) 2019

Chemical Industries Association Road Tankers Black and White Marking Scheme 2001

16. Other information

The above information is compiled on the basis of our best available knowledge in accordance with legislative requirements. It does not imply it is complete or accurate in all cases. It is the user's responsibility to satisfy themselves as to the application of this information / recommendations given for their own particular use.



Ayton Products is a trading name of **Kier Integrated Services Limited**

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