

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Hero Paving & Decking Concentrate

Usage Algaecide and surface biocide

Manufacturer Westland Horticulture Ltd

14 Granville Industrial Estate

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Email customerservice@WestlandHorticulture.com

Emergency Tel 01480 443789 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Eye Irr. 2 H319 Causes serious eye irritation

Classification of the Substance or Mixture According to Directive 67/548/EEC or Directive 1999/45/EC:

Not classified

Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms GHS07 – Irritant

(

Signal Word Warning

Hazard Statements H319 Causes serious eye irritation

Precautionary Statements

P264 Wash with soap and water thoroughly after handling

P280 Wear protective gloves, clothing and eye or face protection

P305+351+338 If in eyes rinse continuously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing

P337+313 If eye irritation persists, get medical attention

P501 Dispose of contents/container in accordance with local regulations

Supplemental Information

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.



Label Elements According to Directive 67/548/EEC or Directive 1999/45/EC:

Hazard Pictograms None

R- Phrases	None
S- Phrases	
S2	Keep out of the reach of children
S13	Keep away from food, drink and animal feedingstuffs
S23	Do not breath spray mist
S25	Avoid contact with eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28	After contact with skin, wash immediately with plenty of soap and water
S29	Do not empty into drains
S35	This material and its container must be disposed of in a safe way
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S46	If swallowed seek medical advice immediately and show this container or label.

Supplemental Information

To avoid risks to man and the environment, comply with the instructions for use

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description

Aqueous surface biocide and disinfectant concentrate containing 1.25% Alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC)

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Directive 67/548/EEC	Regulation (EC) No 1272/2008 (CLP)
Alkyl Dimethyl Benzyl Ammonium Chloride	CAS: 68424-85-1	1.25% W/W	₹	C; R34 Xn; R21/22 N; R50	Acute Tox. 4; H302, H312 Skin Corr. 1B; H314 Aquatic Acute 1; H400

For the full text of the H Statements and R phrases mentioned in this section, see section 16.

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4. FIRST AID MEASURES

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling a

poison control center or doctor, or going for treatment

Inhalation: Move person to fresh air

If breathing is irregular or stopped, administer artificial respiration

Keep patient warm and at rest

Get medical attention if adverse health effects persist or are severe

Skin Contact: Wash contaminated skin with plenty of soap and water

Remove contaminated clothing and shoes Continue to rinse for at least 10 minutes

If skin irritation persists avoid further exposure and get medical attention

Wash contaminated clothing before re-use

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Remove contact lenses and continue flushing

Get medical attention if irritation occurs

Ingestion: Wash out mouth with water

Do NOT induce vomiting unless directed to do so by medical personnel Give small quantities of water to drink if exposed person is conscious

Get medical attention

Most Important symptoms and effects, both acute and delayed:

Irritating to skin, can cause serious eye damage

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Extinguishing media: Use water spray, alcohol-resistant foam dry chemical or carbon dioxide

Extinguishing Media Which Must Not Be Used For Safety Reasons:

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising From the Substance or Mixture:

As the product contains organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Further Information:

This material is very toxic to aquatic organisms

Do not allow run-off from fire fighting to enter drains or water courses.

Cool closed containers exposed to fire with water spray.



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

No action shall be taken involving any personal risk or without suitable training Keep unnecessary and unprotected personnel from entering Do not touch or walk through spilt material Refer to protective measures listed in sections 7 and 8

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

Dilute with water and mop up afterwards or in case of small spillage

Additional Advice: If the product contaminates rivers, lakes, soil or drains inform respective authorities.

7. HANDLING AND STORAGE

Handling:

- · Avoid contact with skin, eyes and clothing
- When using do not eat, drink or smoke
- Wash hands thoroughly after work
- Do not breathe vapour or mist

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep out of the reach of children
- Keep away from food, drink and animal feed stuffs
- Store in original container protected from direct sunlight
- Store between 5-40°C

Specific End Uses:

Use only as a surface biocide according to the instructions on the label

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Exposure Limit Values not available

Exposure Controls

Engineering Measures: Containment and/or segregation is the most reliable technical protection measure

if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below

any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

Protective Measures: The use of technical measures should always have priority over the use of

personal protective equipment

When selecting personal protective equipment, seek appropriate professional

advice

Personal protective equipment should be certified to appropriate standards

Respiratory Protection: No personal respiratory protective equipment normally required.

A particulate filter respirator may be necessary until effective technical measures

are installed.

Hand Protection: Chemical resistant, impervious gloves should be used if a risk assessment

indicates it is necessary

Gloves should be discarded and replaced if there is any indication of degradation

or chemical breakthrough

Suitable material: PVC, Nitrile rubber

Eye Protection: Safety glasses/goggles should be used if a risk assessment indicates it is

necessary to avoid splashes, mists or gases Follow any site specific eye protection policies

Skin and Body Protection: Assess the exposure and select chemical resistant clothing based on the

potential for contact and permeation/penetration characteristics of the clothing

material

Hygiene Measures: Wash with soap and water after removing protective clothing

Decontaminate clothing before re-use, or use disposable equipment (suits,

aprons, sleeves, boots, etc)

Wear as appropriate: impervious protective suit

Environmental Exposure Controls: Steps should be taken to ensure that this product is not released

accidentally into the environment



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colourless liquid

Odour: Characteristic

Other Properties:

	Value	Temperature
рН	7.0 - 8.5	
Density	1.00 g/ml	20°C
Flashpoint	> 100 °C	
Water Solubility	Completely soluble	

10. STABILITY AND REACTIVITY

Hazardous Decomposition: Product stable under normal conditions of use and storage

Combustion or thermal decomposition will evolve toxic and irritant vapours

Hazardous Reactions: None known. Hazardous polymerization does not occur.

Conditions To Avoid: Extremes of temperature and direct sunlight

Avoid release to the environment

11. TOXICOLOGICAL INFORMATION

The toxicological data has been calculated, this product has not been tested

Acute Oral Toxicity: LD50 Median lethal dose rat, >2,000 mg/kg

Acute Inhalation Toxicity: LC50 Median lethal concentration, No data available

Acute Dermal Toxicity: LD50 Median lethal dose rat, >2,000 mg/kg

Skin Irritation: Irritating to skin. According to The Episkin reconstituted human epidermis model

Serious Eye Irritation: Causes serious eye irritation

Respiratory or Skin Sensitization: Not expected to be sensitising

Long Term Toxicity: None of the components in this product are known to be mutagenic, carcinogenic

or toxic to reproduction and development

STOT- repeated exposure: None of the components in this product are known to be toxic in repeat doses



12. ECOLOGICAL INFORMATION

This product has not been tested. Toxicity data based on Benzalkonium Chloride (BAC)

Toxicity

• Toxicity To Fish: BAC: LC50 Median lethal concentration, 0.85 mg/l, 96h

Toxicity To Aquatic Invertebrates: BAC:EC50 Median lethal concentration Daphnia, 0.02 mg/l, 48h

• Toxicity To Aquatic Plants: BAC: EC50 algae, 0.06 mg/l, 72h

Persistence and Degradability

Biodegradability: BAC is not readily biodegradable

Mobility in Soil: No data available

Bioaccumulative Potential: BAC: Low potential, Log Pow 0.5

Results of PBT and vPvB assessment: No data available

Other Information: This product contains organically bound halogens and can contribute to the AOX

value in waste water

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incineration.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Empty remaining contents.

Triple rinse containers. The rinse water should be added to the final spray

solution. It must not be put down the drain, sink or toilet

Completely empty containers can be put in the bin or disposed of in compliance

with applicable local regulations. Do not reuse empty containers.

14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods

Sea Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods

None special precautions for user



15. REGULATORY INFORMATION

Registration Numbers: HSE 9564

PCS 97143

Safety, health and environmental regulations/legislation specific for the substance of mixture:

This mixture is classified and labelled according to the CLP Regulation (EC) No 1272/2008

Contains: Benzalkonium Chloride

Chemical Safety Assessment: A Chemical Safety Assessment is not required for this mixture

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Full texts of abbreviated H Statements referred to under Section 3:

H302 Harmful if swallowed

H312 Harmful if in contact with skin

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

Full text of R Phrases referred to under Section 3:

R21/22 Harmful in contact with skin and if swallowed

R34 Causes burns

R50 Very toxic to aquatic organisms

Full text of Classifications

CLP/GHS: Acute Tox 4; Acute Toxicity, Category 4

Skin Corr. 1B; Skin Corrosion, Category 1B

Aquatic Acute 1; Aquatic Acute Toxicity, Category 1

DSD/DPD: C; Corrosive

N; Dangerous for the environment

Xn: Harmful



Abbreviations and Acronyms

ADR International Carriage of Dangerous Goods by Road

CAS No Chemicals Abstract Service Registry Number Directive 67/548/EEC Dangerous Substances Directive (DSD)

EC No European Community Number for chemicals within EU regulations

IATA-DGR Dangerous Goods Regulations by the International Air Transport Association

IMDG Code International Maritime Dangerous Goods Code

PCS Pesticide Control Service

PBT Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008 Classification, Labelling and Packaging (CLP)
International Transport of Dangerous Goods by Rail

vPvB Very Persistent and Very Bioaccumulative Properties

Further information

Before using this product, ensure that you read and understand its label

MSDS information:

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.

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