

Trade name:Hero Paving and Decking ConcentrateVersion: 1.0Revision date: 8 January 2018Print date:8.1.18

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

### **1.1 Product Identifier**

Name	Hero Paving and Decking Concentrate	HSE 9564
		PCS 97143

**CAS No** CAS: 68424-85-1

### **1.2 Relevant Identified Uses of the Mixture**

- **Usage** Algacide and surface biocide
- 1.3 Details of the Supplier of the Safety Data Sheet
- Supplier Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ

Email

customerservice@WestlandHorticulture.com

1.4 Emergency Telephone number

01480 443789 (UK) 24 hrs

### 2. HAZARDS IDENTIFICATION

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

Eye Irr. 2 H319 Causes serious eye irritation

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

Hazard Pictograms	GHS07 Irritant	
Signal Word	Warning	$\checkmark$
Hazard Statements	H319 Causes serious ey	e irritation



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**Precautionary Statements** P264 Wash with soap and water thoroughly after handling P280 Wear protective gloves, clothing and eye or face protection If in eyes rinse continuously with water for several minutes. Remove P305+351+338 contact lenses, if present and easy to do so. Continue rinsing P337+313 If eve irritation persists, get medical attention Dispose of contents/container in accordance with local regulations P501 **Supplemental Information** EUH401 To avoid risks to human health and the environment, comply with the instructions for use. Additional labelling: none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances N/A

**3.2 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

### Additional information:

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



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### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

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

**4.2 Most Important symptoms and effects, both acute and delayed:** Irritating to skin, can cause serious eye damage

### 4.3 Indication of any immediate medical attention and special treatment needed : None

### 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

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

### Unsuitable Extinguishing Media:

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

## Safety Data Sheet



### According to Regulation (EC) No 1907/2006 (REACH)

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### 5.2 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

### 5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

### Additional 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

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

**For non-emergency personnel:** Keep unprotected people away Restrict access to the area as appropriate until clean-up operations are complete

### For emergency responders

Refer to protective measures listed in sections 7 and 8. Do not touch or walk through spilt material

### **6.2 Environmental Precautions:**

Prevent further leakage or spillage if safe to do so, and contain spillage. Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.

### 6.3 Methods and Materials for Containment and Cleaning Up:

Absorb with liquid binding material (sand, diatomite, acid binder, universal binder, sawdust, earth). Sweep up contaminated absorbent material and place in a marked container for disposal as waste according to Section 13. Ensure adequate ventilation Contaminated surfaces may be cleaned using water or water-detergent mixture Dilute with water and mop up afterwards or in case of small spillage

### 6.4 Reference to other sections: See SECTION 13 for disposal of waste



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### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

- Ensure good ventilation/exhaustion at the workplace
- Do not breathe vapour or mist
- Avoid contact with clothing, eyes and skin.
- Take off immediately all contaminated clothing
- Wash hands during breaks and after using this product
- Do not drink, eat or smoke while handling this product
- Keep children and pets away from treated areas until spray has dried

### 7.2 Conditions for safe storage, including any incompatibilities

### Storage:

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

### 7.3 Specific End Uses:

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

- 8.1.1 Exposure Limit Values not available
- 8.1.2 Biological limit values: none
- 8.1.3 Exposure limits at intended use: none
- **8.1.4** DNEL/PNEC-values: no data available
- 8.1.5 Risk management measures according to used control banding approach

### 8.2 Exposure Controls

The usual precautionary measures should be adhered to general rules for handling chemicals.



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8.2.3 Environmental exposure controls: No data

Consumer exposure control: No data

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance: Clear, colourless liquid

Physical state: liquid

Colour: Clear

Odour: Characteristic

Odour threshold: No data



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### 9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
рН	7.0-8.5	-	-	20°C	-	-
Melting point/freezing	-	-	-	-	-	-
point						
Initial boiling	-	-	-	-	-	-
point/boiling range						
Flash point	>100°C	-	-	-	-	-
Evaporation rate	-	-	-	-	-	-
Flammability (solid,	-	-	-	-	-	-
gas)						
-Upper/lower	-	-	-	-	-	-
flammability or						
explosive limits						
Upper explosive limits	-	-	-	-	-	-
Lower explosive limits	-	-	-	-	-	-
Vapour pressure	-	-	-	-	-	-
Vapour density	-	-	-	-	-	-
Relative density	1.00g/ml	-	-	-	-	-
Solubility(ies)	Completely soluble in	-	-	-	-	-
	water					
-Partition coefficient:	-	-	-	-	-	-
n-octanol/water						
Auto-ignition	-	-	-	-	-	-
temperature						
Decomposition	-	-	-	-	-	-
temperature						
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	None	-	-	-	-	-
Oxidising properties	None	-	-	-	-	-

### Physical hazards: None



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### Flammable aerosols

### Justification for data waiving:

#### Safety characteristics:

	Value	Result	Method	Remark
Content of flammable components				
Chemical heat of combustion				
Ignition distance				Testing is not required for
Time equivalent				foam aerosols.
Deflagration density				
Maximum flame height				Testing is not required for
-				spray aerosols.
Flame duration				

### Assessment / Classification: No classification required

### Flammable solids

### Justification for data waiving:

#### Safety characteristics:

	Value	Method	Remark
Burning rate	N/A		
Burning rate with wetted zone	N/A		
Moisture content	N/A		

Assessment / Classification: No classification required

### Oxidising solids

### Justification for data waiving:

#### Safety characteristics:

	Value	Method	Remark
Preliminary test	N/A		
Mean burning time of test mixture	N/A		
Mean burning time of reference	N/A		
mixture			



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### Assessment / Classification: No classification required

### **10. STABILITY AND REACTIVITY**

**10.1Reactivity:** Stable under normal conditions of storage, handling and use

10.2 Chemical Stability: Stable under normal conditions of storage, handling and use

**10.3 Possibility of hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

- **10.4 Conditions To Avoid**: Extremes of temperature and direct sunlight. Must be protected from frost Avoid release to the environment
- **10.5 Incompatible Materials**: No information available

**10.6 Hazardous decomposition products**: No decomposition if used according to specifications Thermal decomposition products may include toxic and corrosive fumes of chloride and toxic nitrogen oxides

### 11. TOXICOLOGICAL INFORMATION

The toxicological data has been taken from higher concentration products

Toxicokinetics, metabolism and distribution

- 11.1 Information on toxicological effects
- 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 Corrosion/Irritation: Irritating to skin according to The Episkin reconstituted human epidermis model
- **Eye damage/Irritation:** Causes serious eye irritation



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Respiratory or Skin Sensitization: Not expected to be sensitising

### CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

None of the components in this product are known to be mutagenic, carcinogenic or toxic to reproduction and development

### **12. ECOLOGICAL INFORMATION**

### 12.1 Toxicity

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

- **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

### **12.2 Persistence and Degradability**

**Biodegradability**: BAC is not readily biodegradable

- 12.3 Bioaccumulative Potential: BAC: Low potential, Log Pow 0.5
- **12.4 Mobility in Soil:** No data available

**12.5 Results of PBT and vPvB assessment:** No data available

# **12.6 Other adverse effects:** This product contains organically bound halogens and can contribute to the AOX value in waste water

Do not allow product to reach groundwater, water bodies or sewage system

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods



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Product:Do not contaminate ponds, waterways or ditches with chemical or used container.<br/>Do not dispose of waste into sewer.<br/>Where possible recycling is preferred to disposal or incineration.<br/>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)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

### **14.6** Special precautions for user: None

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: None



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### **15. REGULATORY INFORMATION**

### 15.1 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

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

### **16. OTHER INFORMATION**

### **16.1** Indication of changes : none

### 16.2 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
MAPP	Ministerially Approved Pesticide Product
PCS	Pesticide Control Service
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

### 16.3 Key literature references and sources for data; Enviroquest Ltd

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008** [CLP]: See SECTION 2.1 (classification).

### 16.5 Relevant H- and EUH-phrases (number and full text):

H302 Harmful if swallowed



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H312	Harmful if in contact with skin
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life

**16.6 Training advice:** Follow the instructions

### 16.7 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 Regulation 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.