

## SAFETY DATA SHEET

**MAIN VERTE ALGAE AND FUNGICIDAL WASH****Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name:** Main Verte Algae and Fungicidal Wash

**Product code:** MVAFW

**PCS Number**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance/ mixture:** Removal of algae and lichen from tarmac and Hard Surfaces

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Main Verte  
Aghnagallop  
Drumshanbo  
Co. Leitrim  
N41 X576  
**Tel:** +353 (0) 71 9641673  
**Fax:**  
**Email:** info@mainverte..com

**1.4. Emergency telephone number**

**Emergency tel:** +353 (0) 85 1110011 GMT 8:00-18:00      Emergency contact as on the left or after hours:

**National Poisons Centre**, Beaumont Hospital, Dublin 9, IRELAND (REPUBLIC OF)

**Tel:** +353 1 809 2166 (public)      +353 1 837 9964 (medical professionals)

**Section 2: Hazard identification****2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 4)

Skin Irritation (Category 2)

Acute aquatic toxicity (Category 1)

For the full text of the H-Statements mentioned in this Section, see Section 16

**2.2. Label elements****Labeling according Regulation (EC) No 1272/2008 [CLP]****Pictogram****Signal word;** Warning**Hazard statement(s)**

H303 may be Harmful if swallowed.

H315 Causes severe skin irritation

H320 Causes eye irritation

H401 Toxic to aquatic life

**Precautionary statement(s)**

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

**Section 3: composition/information on ingredients**

Hazardous ingredients	Conc.	CAS No.	EINECS NO.	Symbols/Risk phrases
Benzalkonium Chloride	5-15%	63449-41-2	264-151-6	H305, H315, H320, H400

For the full text of the H-Statements mentioned in this Section, see Section 16

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Eye contact:** Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Ingestion:** Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label

**Inhalation:** Move the exposed person to fresh air. Seek medical attention

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** Causes skin irritation.

**Eye contact:** Causes inflammation and may damage the cornea.

**Ingestion:** May cause nausea

**Inhalation:** May cause irritation to the respiratory tract.

### 4.3. Indication of any immediate medical attention and special treatment

No data available

## Section 5: fire-fighting measures

### 5.1. Extinguishing media

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

### 5.2. Special hazard arising from the substance or mixture

**Exposure hazards:** Nature of decomposition products not known.

### 5.3. Advice for fire fighters

**Advice for fire fighters:** Wear self contained breathing apparatus for firefighting if necessary.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

### 6.3. Methods and materials for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

### 6.4. Reference to other sections

For disposal see section 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area

### 7.2. Conditions for safe storage, including any incompatibles

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

### 7.3. Specific end use(s):

**Specific end use(s):** A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8: Exposure control/ Personal protection

### 8.1. Control parameters

**Workplace exposure limits:**

Component	CAS-N0.	Value	Control parameters	Basis
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Benzalkonium chloride	63449-41-2	OELV – 15 min (STEL)	2 mg/m <sup>3</sup>	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
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## 8.2. Exposure controls

**Engineering measures:** Handle in accordance with good hygiene and safety practice. Wash hands before breaks and at the end of workday

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from

**Eye protection:** Tight fitting goggles with side shields, or wide vision goggles. Do not wear contact lenses when handling this product. Individual pocket eyewash advisable.

**Protective equipment:** Protective overalls and safety shoes/boots.



## Section 9: Physical and chemical properties

**State:** Liquid

**Colour:** Pink

**Odour:** slightly alcoholic

**Solubility in water:** Soluble

**Viscosity:** 1-10

**Boiling point/range °C:** N/A

**Melting point/ range °C:** N/A

**VOC g/l:**

**pH:** 7-8.5

## Section 10: Stability and reactivity

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions:**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

Other decomposition products - no data available

**Section 11: Toxicological information****11.1. Information on Toxicological effect**

Toxicity values: Benzalkonium Chloride

Substance	Species	Test	Value	Units
68391-01-5 Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	Rat	Oral LD <sub>50</sub>	650	mg/kg
85409-23-0 Alkyl dimethyl ethylbenzyl ammonium chloride	Rat	Oral LD <sub>50</sub>	<2000	mg/kg

**Symptoms/ routes of exposure****Skin contact:** May be harmful if absorbed through skin. Irritation**Eye contact:** Causes eye burns

**Ingestion:** Concentrate may cause burning of the throat and possible damage to internal organs.

**Inhalation:** Concentrate may be harmful if inhaled. Material is extremely destructive to the tissue of mucous membranes and upper respiratory tract.

## Section 12: Ecological information

### 12.1. Eco-toxicity

**Eco-toxicity values:**

Substance	Species	Test	Value	Units
68391-01-5 Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	Daphnia magna (water flea)	48H LC <sub>50</sub>	65	mg/L
85409-23-0 Alkyl dimethyl ethylbenzyl ammonium chloride	Daphnia magna (water flea)	48H LC <sub>50</sub>	0.016	mg/L

### 12.2. Persistence and degradability

All surfactants are readily degradable

### 12.3. Bio-accumulative potential

**Bio-accumulative potential:** no data available

### 12.4. Mobility in soil

**Mobility:** mobile

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** no data available

### 12.6. Other adverse effects

**Other adverse effects:** Potentially toxic to aquatic life

## Section 13: Disposal considerations

Dispose of in compliance with all local and national regulations

### 13.1 Waste treatment methods

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Local and national regulations.

### Section 14: Transport information

#### UN-Number

**ADR** UN1760

**IMDG** UN1760

**IATA** UN1760

#### • UN proper shipping name

**ADR** 1760 CORROSIVE LIQUID, N.O.S. (ALKYL(C12-16)DIMETHYLBENZYLAMMONIUM CHLORIDE)

**IMDG** CORROSIVE LIQUID, N.O.S. (ALKYL(C12-16)DIMETHYLBENZYLAMMONIUM CHLORIDE)

**IATA** CORROSIVE LIQUID, N.O.S. (ALKYL(C12-16)DIMETHYLBENZYLAMMONIUM CHLORIDE)

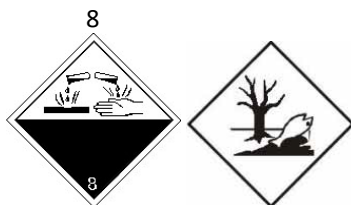
#### • Transport hazard class(es)

**ADR**

**Class**

8 (C9) Corrosive substances.

**Label**

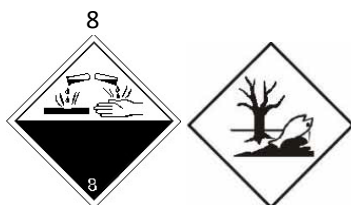


**IMDG**

**Class**

8 Corrosive substances.

**Label**



**IATA**

**Class**

8 Corrosive substances.

**Label**



#### • Packing group

**ADR** III

**IMDG** III

**IATA** III



- **Environmental hazards:**

**Marine pollutant:** Yes

- **Special precautions for user**

Warning: Corrosive substances.

**Danger code (Kemler):** 80

**EMS Number:** F-A,S-B

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):** E1

**Limited quantities (LQ)** 5L

**Transport category** 3

**Tunnel restriction code** E

## Section 15: Regulatory Information

### 15.1. Safety, health and environment regulations/ legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

## Section 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

Acute toxicity, Oral (Category 4)	H303	may be Harmful if swallowed.
Skin Irritation (Category 2)	H315	Causes severe skin irritation
	H320	Causes eye irritation
Acute aquatic toxicity (Category 1)	H401	Toxic to aquatic life

**Legal disclaimer:** the above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.