

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name : MOGETON  
Product form : Mixture  
Type of formulation : Wettable powder (WP)  
Active Ingredient : Quinoclamine  
Composition code : SH 084 01  
Registration number : MAPP 15837

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/preparation : Herbicide (Agriculture)

**1.2.2. Uses advised against**

No additional information available

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

Supplier:

Stähler Deutschland GmbH & Co. KG  
Stader Elbstrasse  
D-21683 Stade  
Germany  
Tel: +49 (0) 4141 9204 0  
Fax: +49 (0) 4141 9204 11  
info@staehler.com  
www.staehler.de

Distributor:

1 Riverside  
Granta Park  
Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom  
Tel: +44 (0)845 373 0305  
Fax: +44 (0)1223 891210  
Email: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)  
Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

**1.4. Emergency telephone number**

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.

For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.

For further advice for medical professionals - The National Poisons Information Service: Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.

For further advice for veterinary surgeons: 020 7635 919.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

N; Xn  
R63  
R48/22  
R36  
R43  
R50/53

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

## 2.2. Label elements

### Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols :



Xn - Harmful



N - Dangerous for the environment

Hazardous ingredients :

Quinoclamine

R-phrases :

R36 - Irritating to eyes.  
 R43 - May cause sensitibilisation by skin contact.  
 R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R63 - Possible risk of harm to the unborn child.

S-phrases :

S2 - Keep out of the reach of children.  
 S13 - Keep away from food, drink and animal feeding stuffs.  
 S20/21 - When using do not eat, drink or smoke.  
 S23 - Do not breathe gas/fumes/vapour/spray  
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S35 - This material and its container must be disposed of in a safe way.  
 S36/37 - Wear suitable protective clothing and gloves.  
 S42 - During fumigation/spraying wear suitable respiratory equipment  
 S46 - If swallowed, seek medical advice immediately and show this container or label.  
 S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Quinoclamine	(CAS No.) 2797-51-5 (EC no) 220-529-2	20 - 30	Xn; N R63 R48/22 R36 R43 R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quinoclamine	(CAS No.) 2797-51-5 (EC no) 220-529-2	20 - 30	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general :

Remove soiled clothing promptly.  
 In the event of any complaints or symptoms, avoid further exposure.  
 If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation :

Remove victim to fresh air.  
 Get medical advice and attention if you feel unwell.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water.  
Remove contaminated clothes.  
If skin irritation persists, seek medical advice.  
Wash clothing before re-using.

First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing with the eyelid wide open for at least 15 minutes.

First-aid measures after ingestion : Wash out mouth with plenty of water. Seek medical attention immediately.

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

Symptoms/injuries : No specific antidote known. Treat symptomatically

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>).  
Water spray or powder.  
For large fire : Alcohol resistant foam. Water.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.  
Use water stream to cool containers.

Protection during firefighting : Wear suitable protective clothing.  
Total impervious protective suits, gloves, and boots must be worn.

### SECTION 6: Accidental release measures

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

General measures : Avoid dust formation. Avoid contact with eyes, skin and clothes.

##### 6.1.1. For non-emergency personnel

Wear suitable protective clothing, gloves and eye or face protection.

##### 6.1.2. For emergency responders

Wear suitable protective clothing, gloves and eye or face protection.

#### 6.2. Environmental precautions

Do not discharge into the drains/ surface water/ groundwater.

Notify the authorities if product enters sewers or public waters.

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

Methods for cleaning up : Clean up any spills as soon as possible.  
Dispose of contaminated materials in accordance with local/national regulations.

#### 6.4. Reference to other sections

Reference to other sections. (7, 8, 13).

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Read label before use.  
Do not go near plants or treated surfaces until the spray deposit is completely dry.

Precautions for safe handling	: Do not breath dust. Good ventilation of the workplace required. Avoid contact with skin and eyes. Wear suitable protective clothing (coveralls) and suitable protective gloves when applying by hand-held equipment. Wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate. Wash all protective equipment after use.
Hygiene measures	: Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not drink, eat or smoke in the workplace. Wear clean working clothes every day.
Environmental precautions	: To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements. Refer to label information.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions	: Store in original container. Keep containers tightly closed. Do not store near food, drink or animal feeding stuffs. Store in a dry well ventilated place. Storage class: 13.
Storage temperature	: < 40 °C

**7.3. Specific end use(s)**

For use only as a horticultural turf treatment.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2. Exposure controls**

Appropriate engineering controls	: Ensure adequate ventilation. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Wash hands before break and at end of works. Avoid dust formation.
Personal protective equipment	: Gloves. Protective clothing. Dust production: dust mask with filter type P2. Safety glasses.



Hand protection	: Wear suitable gloves resistant to chemical penetration. Impermeable protective gloves.
Eye protection	: Tightly fitting safety goggles.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear half-mask with adequate filter. FFP2 or P2 filter.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state	: Solid
Appearance	: Powder.
Colour	: Dark orange.
Odour	: Malty.
Odour threshold	: No data available
pH	: 6 (1% aqueous solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable.
Self ignition temperature	: Product is not selfigniting.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 426 g/l
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: It is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

#### 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Not known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful by inhalation.

<b>MOGETON</b>	
LD <sub>50</sub> oral rat	> 5000 mg/kg
LD <sub>50</sub> dermal rat	> 2000 mg/kg
LC <sub>50</sub> inhalation rat (mg/l)	> 1.73 mg/l/4h
<b>Quinoclamine (2797-51-5)</b>	
LD <sub>50</sub> oral rat	> 1480 mg/kg
LD <sub>50</sub> dermal rat	> 5000 mg/kg
LC <sub>50</sub> inhalation rat (mg/l)	> 0.79 mg/l/4h

Irritation	: Not classified
Eye Irritation	: Moderate irritation.
Corrosivity	: Not classified
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

Other information : This product is considered to be harmful.

## SECTION 12: Ecological information

### 12.1. Toxicity

MOGETON	
LC <sub>50</sub> Rainbow trout	0.063 mg/l (96 h)
LC <sub>50</sub> <i>Daphnia magna</i>	3.7 mg/l (48 h)
EbC <sub>50</sub> <i>Scenedesmus subspicatus</i> (Algae)	0.086 mg/l, EbC50, (72 h)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other information : Do not discharge into the drains/ surface water/ groundwater.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Do not remove as household garbage.  
 Disposal must be done according to official regulations.  
 Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 3077

### 14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Quinoclamine)  
 Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)

### 14.3. Transport hazard class(es)

Class (UN) : 9  
 Hazard labels (UN) : 9



### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90  
 Classification code (UN) : M7

Orange plates :



Special provision (ADR) 274, 335, 601  
 Transport category (ADR) 3  
 Tunnel restriction code : E  
 Limited quantities (ADR) 5kg  
 Excepted quantities (ADR) : E1  
 EAC code : 2Z

**14.6.2. Transport by sea**

No additional information available

**14.6.3. Air transport**

No additional information available

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

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Other information :

REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of R-, H- and EUH-phrases::

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361d	Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

Date of issue: 07/08/2012

Revision date: 19/11/2012

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Version: 1.0

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N	Dangerous for the environment
Xn	Harmful

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*