

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : MOGETON
Product code : AK 007 1302
Type of formulation : Wettable powder (WP)
Active Ingredient : Quinoclamine

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

2.1. Relevant identified uses

Main use category : Plant protection product for professional use. Agriculture.
Use of the substance/mixture : Herbicide.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

Supplier:

Agro-Kanesho Co., LTD
7F Akasaka Shasta-east,
2-19, Akasaka 4-chome,
Minato-ku, Tokyo, Japan,
107-0052

Distributor:

CERTIS UK
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
Website: 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 9195.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361
STOT SE 3	H335
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H-phrases: see section 16

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

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P260 - Do not breathe dust.
P263 - Avoid contact during pregnancy/while nursing.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to a suitable disposal site in accordance with local and

national regulations.

EUH phrases : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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 sensibilisation 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. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Quinoclamine	(CAS No) 2797-51-5 (EC no) 220-529-2	25 - 30	Repr.Cat.3; R63 Xn; R48/22 Xi; R36 R43 N; R50/53
Quartz (SiO ₂)	(CAS No) 14808-60-7 (EC no) 238-878-4	25 - 30	Not classified.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Kaolin substance with a Community workplace exposure limit	(CAS No) 1332-58-7 (EC no) 310-194-1	10 - 20	Not classified.
Silica amorphous substance with a Community workplace exposure limit	(CAS No) 7631-86-9 (EC no) 231-545-4	1-2	Not classified.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quinoclamine	(CAS No) 2797-51-5 (EC no) 220-529-2	25 - 30	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 2, H371 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Quartz (SiO ₂)	(CAS No) 14808-60-7 (EC no): 238-878-4	25 - 30	Not classified.
Kaolin substance with a Community workplace exposure limit	(CAS No) 1332-58-7 (EC no) 310-194-1	10 - 20	Not classified.
Silica amorphous substance with a Community workplace exposure limit	(CAS No) 7631-86-9 (EC no) 231-545-4	1-2	Not classified.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In the event of any complaints or symptoms, avoid further exposure.
First-aid measures after inhalation	: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a doctor.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention.
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. Consult an eye specialist.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries : No information available.

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 : Water spray
Dry chemical powder
Alcohol resistant foam
Carbon dioxide (CO₂).

Unsuitable extinguishing media : Jet of water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustion or thermal decomposition may generate: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Hydrogen chloride (HCl).
Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Fight fire from safe distance and protected location.
Do not breathe fumes
Cool closed containers exposed to fire with water spray
If possible, take the containers out of dangerous zone.
Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.

Protection during firefighting : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection
Wear a self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

Emergency procedures : Evacuate area.
Ensure adequate ventilation.
Avoid direct contact with the substance.
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.2. Environmental precautions

Prevent entry to sewers and public waters.
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.
Collect spilled material with shovels, buckets and place in closed containers and label properly.
Remove as chemical waste, according to national or local legislation.
In the event of major spillage: contact an expert.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Read label before use

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

Avoid dust formation.

Do not discharge into drains or the environment.

Keep ignition sources away. Do not smoke. Product is not explosive, but the formation of explosive dust air mixtures are possible.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace

Contaminated work clothing should not be allowed out of the workplace

Do no eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Prevent unauthorised access.

Keep locked up and out of the reach of children.

Keep in original containers, tightly closed.

Keep away from food, drink and animal feedingstuffs.

Protect against frost.

Keep away from heat and direct sunlight.

Store in a dry place

Storage temperature : 0 °C - 35 °C

Storage class : 13 (TRGS 510): Non-combustible solids.

7.3. Specific end use(s)

Hericide for agricultural use. Refer to the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace	
Kaolin (1332-58-7)	WEL: Long-term value: 2 mg/m ³
Silica, amorphous (7631-86-9)	Long-term value: 6* 2.4 ** mg/m ³ *inhalable aerosol ** respirable aerosol

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Dust/aerosol mask.



Hand protection : Wear impervious gloves resistant to chemical.
 Nitrile, recommended thickness of the material: = 0.11 mm
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time 480 minutes (Permeation according to EN 374 Part 3: Level 6) e.g. for Dermatrill®. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Safety goggles or a face shield.

Skin and body protection : Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.

Respiratory protection : Wear appropriate respirator for dust / organic vapors.
 Respiratory single serving mask DIN EN 149 with filter FFP or respiratory protective device DIN 58 646-HM with filter P2 DIN EN 143 (colour: white)

Hygiene measures : Do not eat, drink or smoke while handling the product.
 Clean gloves with soap and water before removing.
 Wash hands and face with soap and water before eating, drinking or smoking.
 Clean equipment, premises and work clothes regularly.
 Work clothing should remain on the work area and stored separately from street clothes.

Environmental exposure controls : Discharge into the environment must be avoided.
 Do not contaminate surface and groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Powder.
- Colour : Deep orange.
- Odour : Malty.
- Odour threshold : No data available
- pH : 6 (CIPAC MT 75.2)
- 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.
- Auto-ignition temperature : 220 °C (EEC A.16)
- 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 (CIPAC MT 169)
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

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

Formation of dust.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

MOGETON	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 1.73 mg/l/4h

Quinoclamine (2797-51-5)	
LD50 oral rat	> 1480 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat	> 0.79 mg/l/4h

Skin corrosion/irritation	: No irritant to skin.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	: Quinoclamine: In vivo studies with rats showed increased intrauterine deaths, hydronephrosis and blood vessels abnormalities. EFSA Scientific Report (2007) 117, 1-70, Conclusion on the peer review of quinoclamine Repr. 2.
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure. Quinoclamine: Causes damage to kidneys, spleen and blood through prolonged or repeated oral exposure. Haemosiderin deposition indicated increased haemopoiesis. (EFSA Scientific Report (2007)117, 1-70).
Aspiration hazard	: Not classified
Other information	: This product is considered to be harmful.

SECTION 12: Ecological information

12.1. Toxicity

MOGETON	
LC50 Fishes (<i>Oncorhynchus mykiss</i>)	0.79 mg/l
EC50 Daphnia (<i>Daphnia magna</i>)	3.7 mg/l
ErC50 Algae (<i>Scenedesmus subspicatus</i>)	0.054 mg/l

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

Quinoclamine: log Pow: 1.58 (pH 11, 30 °C), BCF: not relevant. EFSA Scientific Report (2007) 117, 170.

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

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

Waste treatment methods : Apply triple washing procedure of the empty container and place the rinse water in the tank or container where the mixture is prepared. Handle empty containers and waste as established by the competent authorities.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. : 3077

UN-No.(IATA) : 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. (Quinoclamine), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9

Class (IATA) : 9 - Miscellaneous Dangerous Goods

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 : Z2

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

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
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
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 sensitization 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
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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