

CHLORMEPHON UK

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 29/10/2019 Supersedes: 9/12/2018 Version: 5.0

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

1.1. Product identifier

Product name : CHLORMEPHON UK

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Phytosanitary

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Société Financière de Pontarlier
11, Boulevard de la Grande Thumine - Parc d'Ariane - Bât. B
13090 AIX EN PROVENCE - FRANCE
T +33 (0)4 42 52 72 12 - F +33 (0)4 42 52 68 52
contact@sfprd.fr

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	-

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Met. Corr. 1 H290

Acute Tox. 4 (Oral) H302

Full text of hazard classes and H-statements : see section 16

Classification according to Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC (United Kingdom)

Acute Tox. 4 (Oral) H302

STOT SE 3 H335

Registration no.: 16215

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause respiratory irritation. May be corrosive to metals.

2.2. Label elements

Labelling according to Regulation (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC (United Kingdom)

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazardous ingredients :

Chlormequat chloride; Ethephon

Hazard statements (CLP) :

H302 - Harmful if swallowed.
H335 - May cause respiratory irritation.

Precautionary statements (CLP) :

P261 - Avoid breathing vapours, mist, spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P330 - Rinse mouth.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

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

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Chloromequat chloride	(CAS-No.) 999-81-5 (EC-No.) 213-666-4 (EC Index-No.) 007-003-00-6	25 - 50	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311
Ethephon	(CAS-No.) 16672-87-0 (EC-No.) 240-718-3 (EC Index-No.) 015-154-00-4	10 - 20	Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice and attention if you feel unwell.

First-aid measures after skin contact : Remove all contaminated clothing and footwear. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth out with water. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Immediately consult a doctor/medical service.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

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 : Powder. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Presents no particular fire or explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Isolate fire area. Evacuate downwind. Do not breathe fumes. Contain the extinguishing fluids by bunding. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Clear the danger area. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spilled material by bunding.

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6.3. Methods and material for containment and cleaning up

For containment	: Liquid spill: take up in sand, earth, vermiculite.
Methods for cleaning up	: Cautiously neutralize remainder. Wash contaminated area with large amounts of water.
Other information	: Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures	: Always wash hands after handling the product. Do not drink, eat or smoke in the workplace. If on skin, take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a cool, well-ventilated place. Keep container tightly closed.
Incompatible materials	: Metals.
Packaging materials	: Original packaging.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Impermeable protective gloves. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

Safety glasses

Skin and body protection:

Protective clothing (with elasticated cuffs and closed neck)

Respiratory protection:

Filtering respiratory protective device with a pesticide canister

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Cream.
Odour	: Odourless.
Odour threshold	: Not determined
pH	: No data available
pH solution	: 2.015 (1% Dilution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not determined
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 23 hPa
Relative vapour density at 20 °C	: Not determined
Relative density	: No data available
Density	: 1.121 g/ml

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Solubility	: Water: completely miscible
Log Pow	: Not determined
Viscosity, kinematic	: 3.061 mm ² /s (OECD 114 method)
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified. (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified. (Based on available data, the classification criteria are not met)

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ATE (oral)	1665.853 mg/kg bodyweight
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Chlormequat chloride (999-81-5)

LD50 oral rat	520 mg/kg
LD50 dermal rabbit	964 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.2 mg/l/4h

Ethephon (16672-87-0)

LD50 oral rat	1564 mg/kg
LD50 dermal rabbit	983 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	3.26 mg/l/4h

Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Additional information	: Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Not irritating to rabbits on ocular application (OECD 405 method)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Does not cause cutaneous sensitisation for guinea-pigs (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	3.061 mm ² /s (OECD 114 method)
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified. (Based on available data, the classification criteria are not met)

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EC50 Daphnia	49.7 mg/l/48 h (Daphnia magna)
ErC50 (other aquatic plants)	6.32 mg/l (Iemna gibba) 7 days
NOEC chronic crustacea	20.7 mg/l (Daphnia magna, 48h)
NOEC chronic algae	> 100 mg/l/72 h (Pseudokirchnerella subcapitata)

Chlormequat chloride (999-81-5)

LC50 fish	> 100 mg/l/96h (Onchorhynchus mykiss)
EC50 Daphnia	31.7 mg/l/48 h (Daphnia magna)
ErC50 (algae)	> 100 mg/l/72 h (Pseudokirchneriella subcapitata)
NOEC chronic fish	43.1 mg/l/ 21 days (Oncorhynchus mykiss)
NOEC chronic crustacea	2.4 mg/l/ 21 days (Daphnia magna)

Ethephon (16672-87-0)

LC50 fish	> 100 mg/l/96h (Onchorhynchus mykiss)
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12.2. Persistence and degradability

Chlormequat chloride (999-81-5)

Persistence and degradability	Half-life (in soil) : 17.0 - 31.6 . days.
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12.3. Bioaccumulative potential

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Log Pow	Not determined
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Chlormequat chloride (999-81-5)

Log Pow	-3.39
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Chlormequat chloride (999-81-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: After cleaning, recycle or dispose of at an authorised site. Do not allow into drains or water courses.
Product/Packaging disposal recommendations	: Dispose of in accordance with relevant local regulations.






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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3265	UN 3265	UN 3265	UN 3265	UN 3265
14.2. UN proper shipping name				
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlormequat chloride(999-81-5))	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlormequat chloride(999-81-5))	Corrosive liquid, acidic, organic, n.o.s. (Chlormequat chloride(999-81-5))	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlormequat chloride(999-81-5))	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Chlormequat chloride(999-81-5))
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C3
 Special provisions (ADR) : 274
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T7
 Portable tank and bulk container special provisions (ADR) : TP1, TP28
 Tank code (ADR) : L4BN
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR) : V12
 Hazard identification number (Kemler No.) : 80
 Orange plates :



Tunnel restriction code (ADR) : E
 EAC code : 2X
 APP code : B

Transport by sea

Special provisions (IMDG) : 223, 274
 Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : P001, LP01
 IBC packing instructions (IMDG) : IBC03
 Tank instructions (IMDG) : T7
 Tank special provisions (IMDG) : TP1, TP28

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EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
MFAG-No	: 153

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L

Inland waterway transport

Classification code (ADN)	: C3
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: C3
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of Marpol 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.

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SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). SDS changed sections : 2-11

Data sources : ECHA - European Chemicals Agency. SDS of suppliers.

Other information : Safety data sheet established by : LISAM TELEGIS
17 rue de la Couture F-60400 Passel
www.lisam-telegis.com.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	Practical experience
Acute Tox. 4 (Oral)	H302	Calculation method

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.