

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

CHLOROQUINI PHOSPHAS

EN

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Chloroquine phosphate Chloroquini phosphas Chloroquinefosfaat Chloroquine (phosphate de) Chloroquinphosphat
N° CAS:	50-63-5
N° EC:	200-055-2

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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1.3 Details of the supplier of the safety data sheet

Company:	FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
Repr. 1A	H360
STOT RE 2	H373

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s):

Danger

Hazard statements:

H302	Harmful if swallowed.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P308+P313	If exposed: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Additional applicable label elements:	Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Chloroquine phosphate
IUPAC name:	4-N-(7-chloroquinolin-4-yl)-1-N,1-N-diethylpentane-1,4-diamine;phosphoric acid
Synonyms:	Aralen phosphate Arechin Delagil
N° CAS:	50-63-5
N° EC:	200-055-2
Molecular Formula:	$C_{18}H_{32}ClN_3O_8P_2$
Content:	98.5 per cent to 101.0 per cent (dried substance).

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation:	Allow the victim to rest in well-ventilated area; seek medical advice.
After skin contact:	Rinse immediately with plenty of water; seek medical advice.
After eye contact:	Rinse immediately with plenty of water; seek medical advice.
After ingestion:	Rinse immediately with plenty of water; seek medical advice.

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4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: In case of fire, use water, dry chemical, foam, or alcohol resistant foam.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance/mixture

Disintegrates above 194 °C forming hardly combustible substances.

5.3 Advice for firefighters

Surrounding fires: No special measures required.

Protection against fire: In the event of fire, wear a self-contained breathing apparatus and a chemical protective suit.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear protective clothing. Particular danger of slipping on leaked/spilled product. Avoid substance contact. Avoid generation of dusts. Avoid inhalation of dusts. Ensure supply of fresh air in enclosed rooms. Personal precautions and collective precautions: filtering gas masks containing K mark cartridge, as well as personal protection measures as specified in section 8.

For emergency responders

Wear protective clothing. Particular danger of slipping on leaked/spilled product. Avoid substance contact. Avoid generation of dusts. Avoid inhalation of dusts. Ensure supply of fresh air in enclosed rooms. Personal precautions and collective precautions: filtering gas masks containing K mark cartridge, as well as personal protection measures as specified in section 8.

6.2 Environmental precautions

Collect the spread product to special containers (bags).

6.3 Methods and material for containment and cleaning up

Collect mechanically. Dispose of the material collected according to regulations. Depending on the degree of contamination dispose of by use on farm or to an authorized waste facility (e.g. producer). Wash up residues with much water.

6.4 Reference to other sections

See section 8 for personal protective equipment.

See section 13 for waste disposal.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:	Not available.
Personal protection:	Wear protective glasses and gloves.
Technical protective measures:	Prevent formation of dust
Handling:	While using, use gloves, wash hands well after work.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Store in an airtight container. Product packed in large bags should be kept in vertical position, on pallets without protruding nails and/or sharp wood splinters, which could damage the bag.
Conditions for safe storage, including any incompatibilities:	Store in closed, dry and ventilated storing premises. Bulk product must be stored in closed, dry and ventilated storing premises.
Storage – away from:	Store protected from light, precipitation, humidity (rain or snow, do not let water be collected on the package or package lay in water).

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Regulated occupational exposure limit values:
Maximum allowable value for long-term exposure: 500 micron/m³.

8.2 Exposure controls

Appropriate engineering control

Air supply-extraction ventilation.

Individual protection measures

Eye/face protection:	Wear glasses.
Skin protection:	Working clothes and special boots. After finishing work, take a shower, change clothing.
Hand protection:	Working gloves.
Respiratory protection:	Respiratory mask.
Thermal hazards:	Not determined.

Environmental exposure control

Dispose of rinse water in accordance with local and national regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White or almost white, crystalline powder, hygroscopic.
Odour:	Odourless.
Odour threshold:	Not available.

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pH:	6.0 to 6.5 (1% solution/water)
Melting/freezing point:	194 °C
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility:	Very slightly soluble in alcohol and in methanol.
Solubility in water:	Freely soluble in water, 50 mg/ml.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under regular conditions (see section 7, handling and storage).

10.2 Chemical stability

Stable under regular conditions (see section 7, handling and storage).

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

High ambient temperature.

10.5 Incompatible materials

Contact with other (unpacked) chemical substances is not allowed.

10.6 Hazardous decomposition products

None without changing the physical state of the substance.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral LD50 (mouse): 500 mg/kg
Skin corrosion/irritation:	Not irritating.
Serious eye damage/irritation:	No irritant effect.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Ames test – Negative.
Carcinogenicity:	Experimental references show that there are no effects on reproductive toxicity in laboratory animals.
Reproductive toxicity:	Experimental references show that there are no effects on reproductive toxicity in laboratory animals.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Not available.
Skin contact:	Not available.
Inhalation:	Not available.
Ingestion:	Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

General notes: not know to be hazardous to water.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Not available.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal or mix material with a suitable combustible solvent and incinerate in a chemical incinerator equipped with an afterburner and scrubber. Material should be disposed of in keeping with all local and national legislation. Packaging should be disposed of in keeping with all local and national legislation. Handle contaminated containers as product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : IATA: Chloroquine Phosphate

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not classified as dangerous in the meaning of transport regulation.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture

Not applicable.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

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16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

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