

### Safety Data Sheet (SDS) According to the REACH Regulation (EC) No. 1907/2006

Issuing Date: 2014-12-03

**Revision Date: 2024-10-29** 

Version: 3

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

1.1. Product identifier

Product No	14774
Product name	Chloroquine

Contains

Chemical name chloroquine bis(phosphate) (90 - 100%) Index No.

CAS No 50-63-5

Formula	C18H26CIN32H3O4P
Molecular Weight	515.92 g/mol

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

Manufacturer

3 Trask Lane

**United States** 

Danvers, MA 01923

TEL: +1 978 867 2300

FAX: +1 978 867 2400

Cell Signaling Technology, Inc.

**Identified uses** 

For Research Use Only. Not for Use in Diagnostic Procedures.

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

Importer Cell Signaling Technology Europe B.V. Dellaertweg 9b 2316 WZ Leiden The Netherlands TEL: +31 (0)71 7200 200 FAX: +31 (0)71 891 0019

Websitewww.cellsignal.comE-mail Addressinfo@cellsignal.eu

### 1.4. Emergency telephone number

CHEMTREC 24 hours a day, 7 days a week, 365 days a year +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)

112

Europe

**SECTION 2: Hazards identification** 

### 2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Acute oral toxicity	Category 4 - (H302)
Reproductive toxicity	Category 1A - (H360)
Specific target organ toxicity - repeated exposure (STOT RE)	Category 2 - (H373)

### 2.2. Label elements



Signal word Danger

### Hazard statement(s)

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

### Precautionary statement(s)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P330 - Rinse mouth.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

No information available.

For the full text of the H-phrases & EUH-phrases mentioned in this Section, see Section 16

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms

Chloroquine diphosphate; 1,4-pentanediamine, N(4)-(7-chloro-4-quinolinyl)-N(1),N(1)-diethyl-, phosphate (1:2); 7-Chloro-4-(4-diethylamino-1-methylbutyl-amino)-quinoline, diphosphate; chloroquine bis(dihydrogenphosphate) dihydrate. C<sub>18</sub>H<sub>26</sub>CIN<sub>3</sub>2H<sub>3</sub>O<sub>4</sub>P

Formula

Chemical name	CAS No	Weight-%	EC No	Classification (1272/2008)	REACH Registration Number
chloroquine bis(phosphate)	50-63-5	100	200-055-2	Acute Tox. 4 (H302) Repr. 1A (H360) STOT RE 2 (H373)	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray.
Inhalation	Move to fresh air. Consult a physician. If not breathing, give artificial respiration.
Skin contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Protection of first-aiders	Use personal protective equipment.

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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Notes to physician Treat symptomatically. Early treatment with diazepam (2 mg/kg over 30 min), intubation with artificial ventilation and adrenaline (0.25 ug/kg/min with 0.25 ug/kg/min increments as needed) may improve the prognosis of patients of severe chloroquine poisoning.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the
	surrounding environment
Unsuitable Extinguishing Media	No information available

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

Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel	Evacuate personnel to safe areas. Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize
	spreading and keep powder dry. Take up mechanically, placing in appropriate containers for
	disposal. Avoid dust formation. Clean contaminated surface thoroughly.

### 6.4. Reference to other sections

See Sections 8 & 13 for additional information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product.

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

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

### 7.3. Specific end use(s)

Use as a laboratory reagent.

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

### 8.1. Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2. Exposure controls

### Appropriate engineering controls

Showers, eyewash stations, and ventilation systems

Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tightly fitting safety goggles.
Skin protection	Wear protective gloves and protective clothing.
Hand protection	Impervious gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of inadequate ventilation wear respiratory protection.

### **Environmental Exposure Controls**

Do not allow material to contaminate ground water system

# **SECTION 9: Physical and chemical properties**

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

Physical state	Solid - Crystalline Powder
Color	White to off-white
Odor	No information available
Property pH Melting point/freezing point Boiling point or initial boiling point and boiling range	Values No information available No information available No information available

Remarks • Method No information available No information available No information available

Flash point	No inform
Evaporation rate	No inform
Flammability	No inform
Upper/lower flammability or	/
explosive limits	
Vapor pressure	No inform
Relative vapor density	No inform
Density and/or relative density	No inform
Solubility	No inform
Partition coefficient: n-octanol/water	No inform
Autoignition temperature	No inform
Decomposition temperature	No inform
Viscosity	No inform
Explosive properties	No inform
Oxidizing properties	No inform
0.0 Other information	

9.2. Other information Softening point Molecular Weight Solubility in other solvents VOC content Liquid Density No information available No information available No information available

No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available

No information available 515.92 g/mol No information available No information available No information available No information available. No information available No information available No information available

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# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

# Hazardous polymerizationHazardous polymerization does not occur.Hazardous reactionsNone under normal processing

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is

not well defined.

Acute Toxicity

Without treatment, a dose of 4 grams is usually lethal in adults (fatalities have been reported after ingestion of 2.25 - 3 grams). In children; fatalities have been reported after ingestion of 0.3 - 1 grams.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
chloroquine bis(phosphate)	= 623 mg/kg (Rat)	-	-

### **Unknown Acute Toxicity**

No information available.

### Information on likely routes of exposure

Inhalation	There is no data available for this product.
Eye contact	There is no data available for this product.
Skin contact	There is no data available for this product.
Ingestion	Harmful if swallowed.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause disorder and damage to the: Cardiovascular system, Central nervous system, Eyes, Ears.
Aspiration Hazard	No information available.

### 11.2. Information on other hazards

No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

**Bioconcentration factor (BCF)** No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

### 12.7. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other information	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

# **SECTION 14: Transport information**

### IMDG/IMO

14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Maritime transport in bulk	Not regulated
acco	rding to IMO instruments	
ADR/		
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	33 1	Not regulated
14.5	Environmental hazards	None
14.6	Special precautions for user	None
ΙΑΤΑ	_	
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	None
14.6	Special precautions for user	None

# **SECTION 15: Regulatory information**

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

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

This product does not contain Substances of Very High Concern (SVHC).

### SEVESO Directive Information

This product does not contain substances identified in the SEVESO Directive.

International inventories	
TSCA 8(b)	-
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	-
PICCS	Complies
AICS	-

### International inventories legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

For this substance 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

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

Classification procedure:	Expert judgment and weight of evidence determination.
Issuing Date:	2014-12-03
Revision Date:	2024-10-29
Disclaimer	

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