



CONSEIL DE L'EUROP

# Hydroxychloroquine sulfate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Revision date: 31/10/2024 Supersedes version of: 03/04/2023 Version: 2.0

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

#### 1.1. Product identifier Product form : Substance Substance name : Hydroxychloroquine sulfate Chemical name : Hydroxychloroquine sulfate EC-No. : 212-019-3 CAS-No. : 747-36-4 Product code : 201601103 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** Use of the substance/mixture : Scientific research and development Technical testing and analysis For professional use only Function or use category : Laboratory chemicals **Uses advised against** Restrictions on use : Not for food, drug or home use 1.3. Details of the supplier of the safety data sheet European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F 67081 Strasbourg France T +33(0)388412035, F +33(0)388412771 sds@edqm.eu, www.edqm.eu

## 1.4. Emergency telephone number

Emergency number

: +33(0)390215608

# **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008	[CLP]
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Specific target organ toxicity - Repeated exposure, Category 7	I H372
Hazardous to the aquatic environment – Chronic Hazard,	H410
Category 1	
Full text of H- and EUH-statements: see section 16	

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

Harmful if swallowed. Very toxic to aquatic life with long lasting effects. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

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## 2.2. Label elements

Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	<ul> <li>GHS07 GHS08 GHS09</li> <li>Danger</li> <li>H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> </ul>				
Hazard statements (CLP)	<ul> <li>Danger</li> <li>H302 - Harmful if swallowed.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>				
Hazard statements (CLP)	<ul> <li>H302 - Harmful if swallowed.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>				
	<ul> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>				
Precautionary statements (CLP)	<ul> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>				
Precautionary statements (CLP)	H335 - May cause respiratory irritation. H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.				
Precautionary statements (CLP)	H372 - Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.				
Precautionary statements (CLP)	repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.				
Precautionary statements (CLP)	H410 - Very toxic to aquatic life with long lasting effects.				
Precautionary statements (CLP)					
	P264 - Wash hands, forearms and face thoroughly after handling.				
	P270 - Do not eat, drink or smoke when using this product.				
	P271 - Use only outdoors or in a well-ventilated area.				
	P273 - Avoid release to the environment.				
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.				
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water.				
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
	P312 - Call a POISON CENTRE or doctor if you feel unwell.				
	P321 - Specific treatment (see supplemental first aid instruction on this label).				
	P330 - Rinse mouth.				
	P332+P313 - If skin irritation occurs: Get medical advice/attention.				
	P337+P313 - If eye irritation persists: Get medical advice/attention.				
	P362+P364 - Take off contaminated clothing and wash it before reuse.				
	P391 - Collect spillage.				
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.				
	P405 - Store locked up.				
	P501 - Dispose of contents/container to hazardous or special waste collection point, in				
	accordance with local, regional, national and/or international regulation.				
Labelling according to: Exemption for inner packagi Hazard pictograms (CLP)	ng where the contents do not exceed 10ml.				



## 2.3. Other hazards

Other information

: Active substance (in pharmaceutical products). Warning - substance not yet tested completely.

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## SECTION 3: Composition/information on ingredients

24	Substances
.5 1	Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydroxychloroquine sulfate	CAS-No.: 747-36-4 EC-No.: 212-019-3	≤ 100	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372 Aquatic Chronic 1, H410

Full text of H- and EUH-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. Allow the victim to rest. If the person feels unwell : Get medical advice/attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice if skin irritation persists.
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. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth out with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>Causes skin irritation.</li> <li>Causes serious eye irritation. Redness, pain.</li> </ul>
4.3. Indication of any immediate med	ical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>: Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Water spray. Dry powder. Extinguishing blanket.</li> <li>: Do not use a heavy water stream.</li> </ul>
5.2. Special hazards arising from the subst	tance or mixture
Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul> <li>Prevent fire fighting water from entering the environment.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>

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SECTION 6: Accidental release r	measures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Avoid contact with skin, eyes and clothing.
For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
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	

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for contain	ment and cleaning up
For containment Methods for cleaning up	<ul><li>Absorb with an inert material and place in an appropriate waste disposal container.</li><li>Clean contaminated surfaces with an excess of water. Clean with the help of detergents.</li></ul>
6.4. Reference to other sections	

See Section 13 for disposal information.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Avoid all unnecessary exposure. Ensure good ventilation of the work station.</li> <li>Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before work breaks and after finishing work.</li> </ul>
7.2. Conditions for safe storage, includin	ig any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight.
Packaging materials	: Keep in original containers.
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

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Both local exhaust and general room ventilation are usually required. Material should be handled in a laboratory hood whenever possible.

### Personal protection equipment

### Eye and face protection

### Eye protection:

Wear eye protection. Safety glasses with side shields. (EN 166)

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#### **Skin protection**

### Skin and body protection:

Wear suitable protective clothing. Laboratory use : Lab coat. (EN 13034)

### Hand protection:

Wear suitable gloves. Chemically resistant protective gloves. (EN 374)

## **Respiratory protection**

#### **Respiratory protection:**

In case of dust formation use respirator with filter: P3

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

## 9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Not available
Appearance	:	Crystalline powder.
Molecular mass	:	434 g/mol
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	230 °C
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
рН	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Water: 100 – 1000 g/l
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not 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
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available

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## 10.5. Incompatible materials

## No additional information available

10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

	11
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified (Lack of data)
Acute toxicity (inhalation)	: Not classified (Lack of data)
Hydroxychloroquine sulfate (747-36	j-4)
LD50 oral rat	> 300 – ≤ 2000 mg/kg (estimated value)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified (Inconclusive data)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Lack of data)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

No additional information available

## **SECTION 12: Ecological information**

12.1. Toxicity		
Hazardous to the aquatic environment, short–term : Not classified (Based on available data, the classification criteria are not met) (acute) Hazardous to the aquatic environment, long–term : Very toxic to aquatic life with long lasting effects. (chronic)		
Hydroxychloroquine sulfate (747-36-4)		
LC50 - Fish [1]	> 100 mg/l (96 Hours, Brachydanio rerio (zebra-fish))	
EC50 - Crustacea [1]	> 1 mg/l (48 Hours, Daphnia magna (Water flea)) (estimated value)	
ErC50 algae	> 1 mg/l (72 Hours, Pseudokirchneriella subcapitata (Green algae))	
NOEC chronic crustacea	0.086 mg/l (21 days, Daphnia magna (Water flea))	
NOEC chronic algae	0.183 mg/l (72 Hours, Pseudokirchneriella subcapitata (Green algae))	
12.2. Persistence and degradability		
Hydroxychloroquine sulfate (747-36-4)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		

No additional information available

**SECTION 13: Disposal considerations** 

**13.1. Waste treatment methods** No additional information available

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available

n accordance with ADR / IMDG / IATA		
ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid n.o.s.
Fransport document description		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III
14.3. Transport hazard class(es)		
9	9	9
14.4. Packing group		
III	III	111
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes
No supplementary information available		

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	54 5) 1 (594) di di 101 (20) 2020/01 0
Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions	<ul> <li>274, 335, 375, 601</li> <li>5kg</li> <li>E1</li> <li>P002, IBC08, LP02, R001</li> <li>PP12, B3</li> <li>MP10</li> <li>T1, BK1, BK2, BK3</li> <li>TP33</li> </ul>
(ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Packages (ADR) Special provisions for carriage - Bulk (ADR) Special provisions for carriage - Loading, unloading and handling (ADR)	: SGAV, LGBV : AT : 3 : V13 : VC1, VC2 : CV13
Hazard identification number (Kemler No.) Orange plates	90 90 3077
Tunnel restriction code (ADR)	: -
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) Stowage category (IMDG) Stowage and handling (IMDG)	<ul> <li>274, 335, 966, 967, 969</li> <li>5 kg</li> <li>E1</li> <li>LP02, P002</li> <li>PP12</li> <li>IBC08</li> <li>B3</li> <li>BK1, BK2, BK3, T1</li> <li>TP33</li> <li>A</li> <li>SW23</li> </ul>
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	<ul> <li>E1</li> <li>Y956</li> <li>30kgG</li> <li>956</li> <li>400kg</li> <li>956</li> <li>400kg</li> <li>956</li> <li>400kg</li> <li>A97, A158, A179, A197, A215</li> <li>9L</li> </ul>

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# SECTION 15: Regulatory information

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

### **EU-Regulations**

### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

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### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

## Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No additional information available

# SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Revision date	Added
	Supersedes version of	Added
1.1	EC-No.	Added
1.1	CAS-No.	Added
1.2	Main use category	Removed
1.2	Restrictions on use	Modified
1.2	Use of the substance/mixture	Modified
2.1	Adverse physicochemical, human health and environmental effects	Modified
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified
2.2	Hazard statements (CLP)	Modified
2.2	Hazard pictograms (CLP)	Modified
2.2	Precautionary statements (CLP)	Modified
2.3	Other information	Added
4.1	First-aid measures after ingestion	Modified
4.1	First-aid measures after eye contact	Modified
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures general	Added
4.2	Symptoms/effects after eye contact	Modified
4.2	Symptoms/effects	Removed
4.2	Symptoms/effects after ingestion	Removed
4.2	Symptoms/effects after skin contact	Modified
4.2	Symptoms/effects after inhalation	Modified

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Indication of changes		
Section	Changed item	Comments
4.3	Other medical advice or treatment	Removed
5.1	Unsuitable extinguishing media	Added
5.1	Suitable extinguishing media	Modified
5.2	Fire hazard	Removed
5.2	Hazardous decomposition products in case of fire	Added
5.3	Protection during firefighting	Added
5.3	Firefighting instructions	Modified
6.1	General measures	Modified
6.1	Protective equipment	Added
6.1	Emergency procedures	Modified
6.2	Environmental precautions	Added
6.3	For containment	Added
6.3	Methods for cleaning up	Modified
6.4	Reference to other sections (8, 13)	Added
7.1	Additional hazards when processed	Removed
7.1	Precautions for safe handling	Modified
7.1	Hygiene measures	Modified
7.2	Technical measures	Removed
7.2	Storage conditions	Modified
7.2	Packaging materials	Added
7.3	Specific end uses	Removed
8.2	Skin and body protection	Modified
8.2	Eye protection	Modified
8.2	Appropriate engineering controls	Modified
8.2	Respiratory protection	Modified
8.2	Hand protection	Modified
9	Odour	Removed
9	Molecular mass	Added
9	Melting point	Added
9	Appearance	Modified
10.1	Reactivity	Removed
10.5	Incompatible materials	Removed
10.6	Hazardous decomposition products	Removed
11.1	ATE CLP (oral)	Modified
11.1	LD50 oral rat	Modified
11.1	Additional information	Added
12.1	Ecology - general	Removed

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Indication of changes		
Section	Changed item	Comments
12.1	NOEC chronic crustacea	Added
12.1	NOEC chronic algae	Added
12.1	ErC50 algae	Added
12.1	LC50 - Fish [1]	Added
12.1	EC50 - Crustacea [1]	Added
13.1	Regional waste regulation	Removed
14	Transport information	Modified

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H372	Causes damage to organs (cardiovascular system, eyes) through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

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