

# MEFLOQUINE HYDROCHLORIDE CRS

## Safety Data Sheet

Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006, as amended.

Date of issue: 27/06/2013

Revision date: 27/06/2013

Supersedes: 16/12/2009

Version: 6.0

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

### 1.1. Product identifier

Product form : Substance  
Trade name : MEFLOQUINE HYDROCHLORIDE CRS  
EC no : 257-412-0  
CAS No : 51773-92-3  
Product code : M0253000  
Other means of identification : RTECS No : VC0308000

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

#### 1.2.1. Relevant identified uses

Main use category : The product is intended for research, analysis and scientific education.  
Use of the substance/mixture : For professional use only  
Function or use category : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

European Directorate for the Quality of Medicines & Healthcare  
EDQM, Council of Europe  
F-67081 Strasbourg  
T +33(0)388412035 - F +33(0)388412771

### 1.4. Emergency telephone number

Emergency number : +44(0)1235239670

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Dermal) H312  
Acute Tox. 4 (Inhalation) H332  
Acute Tox. 4 (Oral) H302  
Aquatic Acute 1 H400

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R20/21/22

N; R50

Full text of R-phrases: see section 16

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

No additional information available

# MEFLOQUINE HYDROCHLORIDE CRS

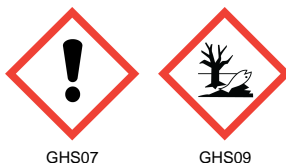
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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H400 - Very toxic to aquatic life

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash hands and other exposed areas thoroughly after handling  
P273 - Avoid release to the environment  
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  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P330 - Rinse mouth  
P391 - Collect spillage  
P501 - Dispose of contents/container to : Hazardous waste. Comply with applicable regulations

### 2.3. Other hazards

Other hazards not contributing to the classification

: Exposure may produce an allergic reaction.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
MEFLOQUINE HYDROCHLORIDE (Main constituent)	(CAS No)51773-92-3 (EC no)257-412-0	≤ 100	Xn; R20/21/22 N; R50

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
MEFLOQUINE HYDROCHLORIDE (Main constituent)	(CAS No)51773-92-3 (EC no)257-412-0	≤ 100	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400

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

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move to fresh air in case of accidental inhalation. Assure fresh air breathing.  
First-aid measures after skin contact : Rinse skin with water/shower.  
First-aid measures after eye contact : Rinse with water while holding the eyes wide open. Contact lenses should be removed.  
First-aid measures after ingestion : Rinse mouth out with water.

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

Symptoms/injuries : See Heading 2.

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

In all cases of doubt, or when symptoms persist, seek medical attention.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Small amounts: Use extinguishing media appropriate for surrounding fire. Extinguishing blanket. Carbon dioxide. Dry powder. Large amounts: Not applicable.
- Unsuitable extinguishing media : Water may be ineffective in firefighting due to low solubility.

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

No additional information available

#### 5.3. Advice for firefighters

- Precautionary measures fire : Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable.

### SECTION 6: Accidental release measures

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

- General measures : Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Large amounts: Not applicable.

##### 6.1.1. For non-emergency personnel

- Protective equipment : See Headings 7 and 8.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

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

- Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Poorly soluble in water. Clean with the help of detergents.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Small amounts: See Heading 1. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- Precautions for safe handling : Handle and open container with care. See Heading 8.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

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

- Technical measures : Comply with applicable regulations.
- Storage conditions : To guarantee the quality and properties of the product, keep : dry, Keep in a cool, well-ventilated place away from heat. Store in original container.
- Incompatible products : Strong oxidizing agents.

#### 7.3. Specific end use(s)

See Heading 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

- Hand protection : Gloves.
- Skin and body protection : Lab coat.
- Respiratory protection : Quarter mask (DIN EN 140).

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### SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Crystalline powder. white. light yellow. Powder.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 216 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
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
Solubility	: Methanol. Water: < 1 mg/l
Log Pow	: 2,681 at 20°C
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
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

Stable under normal conditions.

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Small amounts: None under normal use. Large amounts: Not applicable.

#### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed.

#### MEFLOQUINE HYDROCHLORIDE CRS(51773-92-3)

LD50 oral rat	880 mg/kg
ATE (oral)	500,000 mg/kg
ATE (dermal)	1100,000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Small amounts: See Heading 2. Poorly soluble in water. No data available on ecotoxicity. Large amounts: Not applicable.

#### MEFLOQUINE HYDROCHLORIDE CRS(51773-92-3)

LC50 fishes 1	2,1 mg/l LC50-96 Hour - fish
EC50 Daphnia 1	1,8 mg/l EC50 - 48 Hour - Daphnia magna

### 12.2. Persistence and degradability

#### MEFLOQUINE HYDROCHLORIDE CRS(51773-92-3)

Biodegradation	91
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### 12.3. Bioaccumulative potential

#### MEFLOQUINE HYDROCHLORIDE CRS(51773-92-3)

Log Pow	2,681 at 20°C
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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. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations	: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No	: 3077
UN-No.(IATA)	: 3077
UN-No. (IMDG)	: 3077

### 14.2. UN proper shipping name

Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document description	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)

### 14.3. Transport hazard class(es)

Class (UN)	: 9
Class (IATA)	: 9
Class (IMDG)	: 9

### 14.4. Packing group

Packing group (UN)	: III
Packing group (IMDG)	: III

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### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

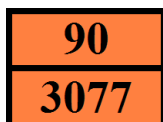
### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (UN) : M7

Orange plates :



Tunnel restriction code : E

LQ : LQ27

Excepted quantities (ADR) : E1

#### 14.6.2. Transport by sea

Ship Safety Act : Miscellaneous dangerous substances & articles

MFAG-No : 171

#### 14.6.3. Air transport

Civil Aeronautics Law : Miscellaneous dangerous substances & articles

### 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

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H400	Very toxic to aquatic life
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R50	Very toxic to aquatic organisms
N	Dangerous for the environment
Xn	Harmful

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*