

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

Revision date: 02.01.2024

Product code: 27754

Page 1 of 13

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

### 1.1. Product identifier

Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

This product is a mixture. REACH Registration Number see section 3.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Acute Tox. 3; H331

Acute Tox. 4; H302

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Muta. 2; H341

Carc. 2; H351

Repr. 1B; H360D

STOT SE 3; H336

STOT RE 1; H372

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

trichloromethane

quinolin-8-ol; 8-hydroxyquinoline

**Signal word:** Danger

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 2 of 13

**Pictograms:**



**Hazard statements**

H331	Toxic if inhaled.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (kidneys, liver, central nervous system) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

**Special labelling of certain mixtures**

EUH208	Contains quinolin-8-ol; 8-hydroxyquinoline. May produce an allergic reaction. Restricted to professional users. For use in industrial installations only.
--------	---

**2.3. Other hazards**

No data available

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

**3.2. Mixtures**

**Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	Classification (Regulation (EC) No 1272/2008)	
67-66-3	trichloromethane	95 - < 100 %
	200-663-8      602-006-00-4      01-2119486657-20	
	Carc. 2, Muta. 2, Repr. 2, Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1; H351 H341 H361d H331 H302 H315 H319 H336 H372	
148-24-3	quinolin-8-ol; 8-hydroxyquinoline	< 1 %
	205-711-1      613-324-00-8	
	Repr. 1B, Acute Tox. 3, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H360D H301 H318 H317 H400 H410	

Full text of H and EUH statements: see section 16.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 3 of 13

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
67-66-3	200-663-8	trichloromethane	95 - < 100 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: LD50 = 908 mg/kg	
148-24-3	205-711-1	quinolin-8-ol; 8-hydroxyquinoline	< 1 %
		oral: LD50 = 790 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

First aider: Pay attention to self-protection!

**After inhalation**

Provide fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.

**After contact with skin**

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
Call a physician immediately.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Protect uninjured eye.

**After ingestion**

Observe risk of aspiration if vomiting occurs.  
Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.  
Call a physician immediately.

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

Irritant  
Cough  
Dyspnoea  
Respiratory complaints  
Dizziness  
Anaesthetic state  
Agitation  
Spasms  
Inebriation  
Gastrointestinal complaints  
Vomiting  
Headache  
Has degreasing effect on the skin.  
Circulatory collapse  
Cardiac arrhythmias

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

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

Revision date: 02.01.2024

Product code: 27754

Page 4 of 13

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

###### **Unsuitable extinguishing media**

no restriction

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

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Hydrogen chloride (HCl)

Phosgene

##### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

##### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

#### SECTION 6: Accidental release measures

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

###### **For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

###### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

##### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

###### **For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

###### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

###### **Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

##### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 5 of 13

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Use personal protection equipment.  
Provide adequate ventilation. Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/aerosol. Use extractor hood (laboratory).

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

**Further information on handling**

Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Take off immediately all contaminated clothing and wash it before reuse.

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

**Requirements for storage rooms and vessels**

Protect against: Light  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a place accessible by authorized persons only.

**Further information on storage conditions**

storage temperature +2°C - +25°C

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

Laboratory chemicals

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

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
67-66-3	Chloroform	2	9.8		TWA (8 h)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
67-66-3	trichloromethane			
	Worker DNEL, long-term	inhalation	systemic	2,5 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	333 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	2,5 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	0,94 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	0,18 mg/m <sup>3</sup>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 6 of 13

**PNEC values**

CAS No	Substance	
Environmental compartment		Value
67-66-3	trichloromethane	
Freshwater		0,146 mg/l
Freshwater (intermittent releases)		0,133 mg/l
Marine water		0,015 mg/l
Freshwater sediment		0,45 mg/kg
Marine sediment		0,09 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,048 mg/l
Soil		0,56 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

goggles  
Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 890 Vitoject®  
Recommended material: FKM (fluoro rubber) 0,7 mm  
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 890 Vitoject®  
Recommended material: FKM (fluoro rubber) 0,7 mm  
Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

Revision date: 02.01.2024

Product code: 27754

Page 7 of 13

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	clear
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-63 °C
Boiling point or initial boiling point and boiling range:	61 - 62 °C
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility: (at 23 °C)	8,7 g/L
Solubility in other solvents	No data available
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	211 hPa
Vapour pressure:	No data available
Density:	1,4759 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties	No data available
Sustaining combustion:	No data available
Self-ignition temperature	No data available
Solid:	No data available
Gas:	No data available

#### Other safety characteristics

Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available
Solid content:	No data available
Sublimation point:	No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

Revision date: 02.01.2024

Product code: 27754

Page 8 of 13

Softening point:	No data available
Pour point:	No data available
No data available:	
Viscosity / dynamic: (at 20 °C)	0,57 mPa·s
Flow time:	No data available

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Protect against:  
Light  
Heat

### 10.3. Possibility of hazardous reactions

Ammonia (NH<sub>3</sub>), Amines, Nitrogen oxides (NO<sub>x</sub>), Alkali (lye), Fluorine, Alkali metals Alkaline earth metal, metals, Powdered metals, Methanol, Light metal, Ketone, Oxidising agent, strong

### 10.4. Conditions to avoid

Protect against:  
Light  
Heat

### 10.5. Incompatible materials

Rubber articles  
plastics

### 10.6. Hazardous decomposition products

In case of fire may be liberated:  
SECTION 5: Firefighting measures

#### Further information

No data available

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

#### Acute toxicity

Toxic if inhaled.  
Harmful if swallowed.

#### ATEmix calculated

ATE (oral) 883,7 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 3,010 mg/l; ATE (inhalation dust/mist) 0,5020 mg/l



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 9 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-66-3	trichloromethane				
	oral	LD50 908 mg/kg	Rat	Toxicology and Applied Pharmacology 52,	OECD Guideline 401
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
148-24-3	quinolin-8-ol; 8-hydroxyquinoline				
	oral	LD50 790 mg/kg	Rat	Study report (1981)	OECD Guideline 401

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.

Contains quinolin-8-ol; 8-hydroxyquinoline. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing genetic defects. (trichloromethane)

Suspected of causing cancer. (trichloromethane)

May damage the unborn child. (quinolin-8-ol; 8-hydroxyquinoline)

**STOT-single exposure**

May cause drowsiness or dizziness. (trichloromethane)

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure. (trichloromethane)

**Aspiration hazard**

Based on available data, the classification criteria are not met.

Observe risk of aspiration if vomiting occurs. (Pulmonary oedema Pneumonia)

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

There are no data available on the mixture itself.

**Other information**

There are no data available on the mixture itself.

**Further information**

Irritant

Cough

Dyspnoea

Respiratory complaints

Dizziness

Anaesthetic state

Agitation

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 10 of 13

Spasms  
Inebriation  
Gastrointestinal complaints  
Vomiting  
Headache  
Has degreasing effect on the skin.  
Circulatory collapse  
Cardiac arrhythmias

**SECTION 12: Ecological information**

**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-66-3	trichloromethane					
	Acute fish toxicity	LC50 103 - 171 mg/l	96 h	Pimephales promelas	Bulletin of Environmental Contamination	Method after: Procedures recommended by
	Acute algae toxicity	ErC50 13,3 mg/l	72 h	Chlamydomonas reinhardtii	Environmental Science and Pollution Rese	A modified cell multiplication inhibitio
	Acute crustacea toxicity	EC50 152,5 mg/l	48 h	other aquatic mollusc: Crassostrea gigas	Study report (2002)	other: ASTM Method E724-94
	Crustacea toxicity	NOEC 13 mg/l	21 d	Daphnia magna	Water Research 23(4), 501-510 (1989)	other: Recommendation of the
	Acute bacteria toxicity	EC50 ( ) 840 mg/l	0,5 h	activated sludge of a predominantly domestic sewage	Toxicity Assessment: An International Jo	OECD Guideline 209
148-24-3	quinolin-8-ol; 8-hydroxyquinoline					
	Acute algae toxicity	ErC50 0,039 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201

**12.2. Persistence and degradability**

Not readily biodegradable (according to OECD criteria)

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-66-3	trichloromethane	1,97
148-24-3	quinolin-8-ol; 8-hydroxyquinoline	1,85

**BCF**

CAS No	Chemical name	BCF	Species	Source
67-66-3	trichloromethane	690	Selenastrum capricornutum	Environmental Scienc

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17

Revision date: 02.01.2024

Product code: 27754

Page 11 of 13

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Send to a physico-chemical treatment facility under observation of official regulations.  
Do not empty into drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.  
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  
Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 1888
<b>14.2. UN proper shipping name:</b>	CHLOROFORM
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III
Hazard label:	6.1
Classification code:	T1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 1888
<b>14.2. UN proper shipping name:</b>	CHLOROFORM
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III
Hazard label:	6.1
Classification code:	T1
Special Provisions:	802
Limited quantity:	5 L
Excepted quantity:	E1

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 1888
<b>14.2. UN proper shipping name:</b>	CHLOROFORM
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III
Hazard label:	6.1
Special Provisions:	-
Limited quantity:	5 L

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 12 of 13

Excepted quantity: E1  
EmS: F-A, S-A

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1888  
**14.2. UN proper shipping name:** CHLOROFORM  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
Hazard label: 6.1  
Limited quantity Passenger: 2 L  
Passenger LQ: Y680  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 680  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 680  
IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 32

Information according to Directive 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 3 - highly hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 12.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity  
Skin Irrit: Skin irritation  
Eye Dam: Eye damage  
Eye Irrit: Eye irritation  
Skin Sens: Skin sensitisation  
Muta: Germ cell mutagenicity  
Carc: Carcinogenicity  
Repr: Reproductive toxicity  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure  
Aquatic Acute: Acute aquatic hazard  
Aquatic Chronic: Chronic aquatic hazard

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydroxyquinoline solution 5 g/l in chloroform R Reag. Ph. Eur., chapter 2.4.17**

Revision date: 02.01.2024

Product code: 27754

Page 13 of 13

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 3; H331	Calculation method
Acute Tox. 4; H302	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Muta. 2; H341	Calculation method
Carc. 2; H351	Calculation method
Repr. 1B; H360D	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (kidneys, liver, central nervous system) through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains quinolin-8-ol; 8-hydroxyquinoline. May produce an allergic reaction.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*