

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

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

### 1.1. Product identifier

**Trade name**

9-Aminoacridine hydrochloride monohydrate

**CAS number**

134-50-9

**EC number**

205-145-5

**Synonyms**

acridin-9-amine hydrochloride hydrate

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

**Relevant identified uses**

Research and development.

**Not suitable for use in**

Not suitable for human consumption or veterinary purposes.

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

**Supplier**

Molekula Group

Street address

Molekula Ltd, Lingfield Way, Darlington,  
DL1 4XX Darlington  
United Kingdom

Telephone

+44 (0) 3302 000 333

Email

info@molekula.com

Web site

www.molekula.com

**Contact person**

Kevin Banks

**Email address**

+44 (0) 7769276927

### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

0344 892 0111 - National Poisons Information Service (Newcastle Centre)

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### Classification

Skin irritation, hazard category 2  
Germ cell mutagenicity, hazard category 2  
Eye irritation, hazard category 2  
Acute toxicity, oral, hazard category 3

#### Hazard statements

H301 + H311 + H331, H315, H319, H341

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.

#### Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash 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 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water/.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
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.  
P405 Store locked up.  
P501 Dispose of contents/container to .

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
 Issued: 2023-08-18

## 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-pharse M factor acute M factor chronic	Note
9-Aminoacridine hydrochloride monohydrate	52417-22-8 205-145-5 - -	100%	Acute Tox. 3 - oral, Skin Irrit. 2, Eye Irrit. 2, Muta. 2	H301 + H311 + H331, H315, H319, H341 - -	-

### Molecular weight

248.71

### Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

IF exposed or concerned: Get medical advice/attention. First aiders/ medical personnel need to protect themselves. Show this Safety Data Sheet (SDS) to medical personnel.

#### Inhalation

Toxic if inhaled. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing stops, provide artificial respiration. For breathing difficulties oxygen may be necessary.

#### Skin contact

In case of skin contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor.

#### Eye contact

Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.

#### Ingestion

IF SWALLOWED: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only if the persons are fully conscious and awake).

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## Information for doctors

No data available.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. See section 11 for more detailed information on health effects and symptoms.

### Inhalation

Single exposure may cause the following adverse effects: Difficulty in breathing. Unconsciousness, possibly death.

### Skin contact

Single exposure may cause the following adverse effects: Unconsciousness, possibly death.

### Eye contact

Single exposure may cause the following adverse effects: Severe irritation. Unconsciousness, possibly death.

### Ingestion

Single exposure may cause the following adverse effects: Severe abdominal pain. May cause severe internal injury. Unconsciousness, possibly death.

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

Treat symptomatically. No special treatment requirement.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

#### Unsuitable extinguishing media

No specific fire fighting procedure given.

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

Specific hazards: Combustible.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

Nitrous gases (NO<sub>x</sub>).

Hydrogen Chloride gas

Development of hazardous combustion gases or vapours possible in the event of fire.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## SECTION 6: Accidental release measures

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

Avoid inhalation of vapours and spray mist and contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

For precautions see section 2.2.

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

Store at room temperature. Store in a dry place. Store in a closed container.

### 7.3. Specific end use(s)

No specific usage precautions noted.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### Eye / face protection

Wear eye protection.

#### Hand protection

Wear protective gloves. Recommended gloves: Nitrile.

Glove Thickness: 0.11mm

Breakthrough time: 8 hours

Always inspect gloves before use. If signs of wear and tear are noticed then the gloves should be replaced.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

### **Other skin protection**

Wash skin thoroughly after handling.

### **Respiratory protection**

Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided.

### **Environmental exposure controls**

Avoid discharge into drains.

## SECTION 9: Physical and chemical properties

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

#### **Physical state**

Solid

#### **Colour**

Yellow.

#### **Odour**

No data available

#### **Melting point / freezing point**

300 °C

#### **Boiling point or initial boiling point and boiling range**

No data available

#### **Flammability**

No data available

#### **Lower and upper explosion limit**

No data available

#### **Flash point**

-22 °C

#### **Auto-ignition temperature**

No data available

#### **Decomposition temperature**

No data available

#### **pH**

No data available

#### **Kinematic viscosity**

No data available

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## Solubility

No data available

## Partition coefficient n-octanol/water

No data available

## Vapour pressure

No data available

## Density and/or relative density

No data available

## Relative vapour density

No data available

## Particle characteristics

No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidising agents.

Bases.

Acid anhydrides.

### 10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

Strong oxidising agents.

### 10.6. Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

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

#### Acute toxicity

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals
9-Aminoacridine hydrochloride monohydrate 52417-22-8 / 205-145-5	LD50	78 mg/kg	Oral	Mouse

### **Aspiration hazard**

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

### **11.2. Information on other hazards**

No data available

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No data available

### **12.2. Persistence and degradability**

No data available

### **12.3. Bioaccumulative potential**

No data available

### **12.4. Mobility in soil**

No data available

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

No data available

### **12.6. Endocrine disrupting properties**

No data available

### **12.7. Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal considerations**

Dispose of contents/container in accordance with local/regional/national/international regulations.

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## SECTION 14: Transport information

### 14.1. UN number

2811

### 14.2. UN proper shipping name

**ADR / RID / ADN proper shipping name**

TOXIC SOLID, ORGANIC, N.O.S. (9-Aminoacridine hydrochloride monohydrate)

**IMDG proper shipping name**

TOXIC SOLID, ORGANIC, N.O.S. (9-Aminoacridine hydrochloride monohydrate)

**IATA proper shipping name**

Toxic solid, organic, n.o.s. (9-Aminoacridine hydrochloride monohydrate)

### 14.3. Transport hazard class(es)

**Label**

ADR/RID/ADN



6.1

IMDG



6.1

IATA



6.1

**ADR / RID Class**

6.1

**ADR / RID Classification code**

T2

**ADR / RID hazard identification number**

60

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## IMDG Class

6.1

## IATA Class

6.1

## ADN Class

6.1

## ADN Class Code

T2

### 14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III

### 14.5. Environmental hazards

#### IMDG EmS

F-A, S-A

### 14.6. Special precautions for user

Tunnel restriction code: E

Transport category: 2

### 14.7. Maritime transport in bulk according to IMO instruments

IBC Instruction: IBC08

## SECTION 15: Regulatory information

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

#### EU regulations

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

#### National regulations

Directive: 2012/18/EU : ACUTE TOXIC

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

According to Regulation (EC) No 1907/2006

# 9-Aminoacridine hydrochloride monohydrate



Version number: 1  
Issued: 2023-08-18

## SECTION 16: Other information

### Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2

Muta. 2 - Germ cell mutagenicity, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Acute Tox. 3 - oral - Acute toxicity, oral, hazard category 3

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.