**EN** 

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 1 OF 11

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name: Atropine sulfate

Atropini sulfas
Atropinesulfaat
Atropine (sulfate d')

Atropinsulfat

N° CAS: 5908-99-6 N° EC: 200-235-0

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

Identified uses: Active Pharmaceutical Ingredient or Excipient.

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

Company: Magis-Pharma NV

Neerlandweg 24 2610 Wilrijk Belgium

Telephone: (+32) (0)3 457 11 76
Email: info@magis-pharma.be
Web page: www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation: Belgisch Antigifcentrum Centre Antipoisons Belge

Telephone: (+32) (0)70 245 245 (Service 24/7)

Web page: www.antigifcentrum.be www.centreantipoisons.be

#### **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance/mixture

#### Classification according to (EC) n° 1272/2008

 Acute Tox. 3
 H301

 Acute Tox. 3
 H311

 Acute Tox. 3
 H331

#### 2.2 Label elements

## Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Danger

Hazard statements:

H301 Toxic if swallowed.



**EN** 

PAGE 2 OF 11

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)



Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

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 and soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P311 Call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).

P330 Rinse mouth.

P361 Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

Additional applicable label

elements:

Not applicable.

## 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Product name: Atropine sulfate

IUPAC name: Bis[(1R,3r,5S)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl(2RS)-3-hydroxy-2-

phenylpropanoate] sulfate monohydrate

Synonyms: Atropine sulphate monohydrate

Atropisol

N° CAS: 5908-99-6 N° EC: 200-235-0

Molecular Formula: C<sub>34</sub>H<sub>48</sub>N<sub>2</sub>O<sub>10</sub>S,H<sub>2</sub>O

Content: 99.0 per cent to 101.0 per cent (anhydrous substance).



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 3 OF 11

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

#### 3.2 Mixtures

Not applicable.

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

General notes: Instantly remove any clothing soiled by the product. Remove breathing apparatus

only after soiled clothing has been completely removed. In case of irregular breathing

or respiratory arrest provide artificial respiration.

After inhalation: Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient

into stable side position for transport.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.

After ingestion: Do not induce vomiting; instantly call for medical help. Seek medical treatment.

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

Dilation of pupils. Unconsciousness. Cramp

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

Medical supervision for at least 48 hours

## **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media: CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water

jet or alcohol-resistant foam.

Unsuitable extinguishing media: Not available.

#### 5.2 Special hazards arising from the substance/mixture

Can be released in case of fire:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

- Carbon dioxide (CO<sub>2</sub>)

- Sulphur oxides (SO<sub>x</sub>)

#### 5.3 Advice for firefighters

Surrounding fires: Dispose of fire debris and contaminated fire fighting water in

accordance with official regulations.

Protection against fire: Wear self-contained breathing apparatus.

Hazardous combustion products: Not available.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

## For non-emergency personnel

Wear protective equipment. Keep unprotected persons away.



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 4 OF 11

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

#### For emergency responders

Wear protective equipment. Keep unprotected persons away.

#### **6.2 Environmental precautions**

Do not allow product to reach sewage system or water bodies.

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

Collect mechanically.

Dispose of contaminated material as waste according to section 13.

For dust removal, use appropriate industrial vacuum cleaners or central vacuum systems.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Precautions for safe handling: Thorough dedusting. Ensure good ventilation/exhaustion at the

workplace. Open and handle container with care.

Not available. Personal protection:

Technical protective measures: Information about protection against explosions and fires: Keep

breathing equipment ready. Keep ignition sources away - Do not

smoke. Protect against electrostatic charges.

Handling: Not available.

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

Storage: Storage class 6.1 - Poisonous Substance

Conditions for safe storage, including any

incompatibilities:

Requirements to be met by storerooms and containers: Store only in

the original container. Use only containers specifically permitted for

this substance/product.

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers. Protect from heat and direct sunlight. Protect from the effects of light. Store in a locked cabinet or with access restricted to technical

experts or their assistants.

Recommended storage temperature: 15 - 25 °C

Storage – away from: Protected from light. Do not store with foodstuffs, animal feed and

flammable materials. Store away from oxidising agents.

## 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION** 



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 5 OF 11

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

Additional information about design of technical systems: No further data; see chapter 7.

#### 8.1 Control parameters

Components with critical values that require monitoring at the workplace: Not required. **Additional information**: The lists that were valid during the compilation were used as basis.

## 8.2 Exposure controls

#### Appropriate engineering control

General protective and hygienic measures: Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Store protective clothing separately.

#### **Individual protection measures**

Eye/face protection: Tightly sealed safety glasses. Skin protection: Protective work clothing.

Hand protection: The glove material has to be impermeable and resistant to the product/ the

> substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation.

**Material of gloves** 

Butyl rubber, BR. Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material Value for the permeation: Level  $\leq 6$ 

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

Respiratory protection: In case of brief exposure or low pollution use breathing filter apparatus. In case of

intensive or longer exposure use breathing apparatus that is independent of

circulating air.

Short term filter device: Filter AEBK/EN 141

Thermal hazards: Not determined.

#### **Environmental exposure control**

Not available

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

White or almost white, crystalline powder or colourless crystals. Appearance:

Odour: Odourless.

Odour threshold: Not determined. pH: 5 (at 20 °C)



EN

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 6 OF 11

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

**ATROPINI SULFAS** 

189 - 192 °C Melting/freezing point:

Initial boiling point: Not determined. Boiling range: Not determined. Flash point: Not applicable. Evaporation rate: Not applicable. Flammability (solid/gas): Not determined. Upper/lower flammability or Not determined.

explosive limits:

Vapour pressure: Steam pressure: Not applicable.

Vapour density: Not applicable. Relative density: Not determined.

Solubility: Freely soluble in ethanol (96 per cent). Very soluble in water. 2000 g/l at 20 °C Solubility in water:

Partition coefficient

(n-octanol/water):

Not determined.

Auto-ignition temperature: Not determined. Decomposition temperature: 150 (2.5 K/min) °C Viscosity: Not applicable.

Product is not explosive. Explosive properties:

Not available. Oxidising properties:

9.2 Other information

Settled apparent density: ~ 350 kg/m<sup>3</sup> (at 20 °C)

Solids content: 100.0 %

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Not available.

#### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

#### 10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

#### 10.4 Conditions to avoid

Not available.

#### 10.5 Incompatible materials

Not available.

#### 10.6Hazardous decomposition products

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulphur oxides (SO<sub>x</sub>).

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

**PAGE 7 OF 11** 

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Fatal if swallowed or if inhaled. Acute toxicity:

LD/LC50 values that are relevant for classification:

5908-99-6 atropine sulphate monohydrate

600 mg/kg (rat) Oral  $LD_{50}$ 

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/irritation: Based on available data, the classification criteria are not met. Respiratory/skin sensitisation: Based on available data, the classification criteria are not met. Germ cell mutagenicity: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity: Reproductive toxicity: Based on available data, the classification criteria are not met.

Summary of evaluation of the

CMR properties:

Not available.

Based on available data, the classification criteria are not met. STOT-single exposure: STOT-repeated exposure: Based on available data, the classification criteria are not met. **Aspiration Hazard:** Based on available data, the classification criteria are not met.

Other: Not available.

## 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact: Not available.

Skin contact: Toxic in contact with skin.

Inhalation: Toxic if inhaled. Toxic if swallowed. Ingestion:

Aspiration: Not available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Δa	uatic	toxi	citv:
-14	MACIC	COM	,.

## 5908-99-6 atropine sulphate monohydrate

460 (96h) mg/L (leuciscus idus) (OECD 203)

## 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil



PAGE 8 OF 11

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

Not available.

Additional ecological information:

**General notes**: Water danger class 3 (Self-assessment): extremely hazardous for water.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

#### 12.6 Other adverse effects

Not available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

**Recommendation**: Disposal according to offical regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal in a licensed hazardous waste landfill or incineration plant according to local official regulations.

Waste disposal key number: CH VeVA Code: 07 05 13 (S)

### European waste catalogue:

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
 07 05 00 Wastes from the MFSU of pharmaceuticals
 07 05 08\* Other still bottoms and reaction residues

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

### **SECTION 14: TRANSPORT INFORMATION**

Transport information according to ADR/RID/IMDG/ICAO/IATA
---

	mber

ADR/ RID(Land),IMDG(Sea), UN1544 IATA/ICAO (Air) :

#### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), ADR 1544 ALKALOIDS, SOLID, N.O.S. (atropine sulphate monohydrate)

IATA/ICAO (Air): IMDG, IATA ALKALOIDS, SOLID, N.O.S. (atropine sulphate monohydrate)

#### 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea), ADR Class: 6.1 (T2) Toxic substances.

IATA/ICAO (Air): Label: 6.1

IMDG, IATA Class: 6.1 Toxic substances.

Label: 6.1

#### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea), II

IATA/ICAO (Air):

#### 14.5 Environmental hazards



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

**PAGE 9 OF 11** 

EN

Publication: 06/03/2024

> Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

ADR/RID(Land),IMDG(Sea),

Marine pollutant: No.

IATA/ICAO (Air):

#### 14.6 Special precautions for user

Warning: Toxic substances. Kemler Number: 60 **EMS Number:** F-A,S-A Stowage Category: Α

## 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not applicable.

#### 14.8 Additional transport information

**ADR** Limited quantities (LQ) 500 g

> Excepted quantities (EQ) Code: E4

> > Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

Transport category 2

Tunnel restriction code D/E

**IMDG** Limited quantities (LQ) 500 g

> Excepted quantities (EQ) Code: E4

> > Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

UN "Model Regulation": UN1544, ALKALOIDS, SOLID, N.O.S. (atropine sulphate monohydrate), 6.1, II

## **SECTION 15: REGULATORY INFORMATION**

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

Hazard symbol:

Danger

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. Risk phrases:

S1 Keep locked up. Safety phrases:

S7/9 Keep container tightly closed and in a well-ventilated place.

S20/21 When using do not eat, drink or smoke. S27 Take off immediately all contaminated clothing.

S28 After contact with skin, wash immediately with plenty of water and soap. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately

(show the label where possible).

S46 If swallowed, seek medical advice immediately and show this container or

label.



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

Publication: 06/03/2024

PAGE 10 OF 11

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

S51 Use only in well-ventilated areas.

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S64 If swallowed, rinse mouth with water (only if the person is conscious).

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: OTHER INFORMATION**

#### 16.1 Changes since the previous version

Not applicable.

#### 16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC (number): European Community (number)

IATA: **International Air Transport Association** ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods **IUPAC:** International Union of Pure and Applied Chemistry PBT: Persistent, Bioaccumulative and Toxic substance

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity UN (number): United Nations (number)

vPvB: very Persistent and very Bioaccumalative

## 16.3 Key literature references/sources for data

European Chemicals Agency.

https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

#### 16.4 Method of classification in case of mixture

Not applicable.

## 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

#### 16.6 Training advisement

Not available

## 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation

EN



According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

PAGE 11 OF 11

EN

Publication: 06/03/2024

Revision: 26/12/2024

Version: 01

## **ATROPINI SULFAS**

(EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the FSA NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. FSA NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

## **16.8 Department issuing MSDS**

**Quality Department** FAC SECUNDUM ARTEM NV info@magis-pharma.be