

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: Human MMP-9 Activity Assay Kit Component

Product No: QZBMMP9H APMA

Print date:

Version: 1.1 / EN

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Revision date: 18Jan2023

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

1.1 Product identifiers

Product name: **p-aminophenylmercuric acetate (APMA); part of 'Human MMP-9 Activity Assay Kit'**

Catalog number: QZBMMP9H – APMA

Brand: QuickZyme Biosciences

Index-No.: 080-004-00-7

Cas-No.: 6283-24-5

EC-No.: 228-497-1

Brand: QuickZyme Biosciences

Reach number: No registration number available annual tonnage does not require registration.

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

Identified uses: Component of Assay kit for laboratory use, research use only

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: QuickZyme Biosciences B.V.

Address: Sylviusweg 71

2333 BE Leiden

The Netherlands

Information contact: +3188866 6024

E-Mail: info@quickzyme.com

1.4 EMERGENCY TELEPHONE NUMBER:

In the EU call emergency number 112, outside EU call local emergency number.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: Mono-constituent substance

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute Tox Oral 2, H300

Acute Tox 1 Dermal, H310

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Acute Tox Inhalation 2, H330

STOT RE 2, H373

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended

Full text of H-Statements: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger

Hazard statements:

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P262 Do not get in eyes, on skin or clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER /Physician, Rinse mouth.

P302 + P352 + P310 IF ON SKIN: Wash with plenty of water, Immediately call a POISON CENTER/ Physician.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER / Physician.

Supplemental Hazard information: None

2.3 Other hazards None

SECTION 3. Composition/information on ingredients

Synonyms: APMA , 4-(Acetomercurio)aniline

Formula: $C_8H_9HgNO_2$

Molecular weight: 351.75 g/mol

CAS-No.: 6283-24-5

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| Component | Classification | Concentration |
|--|---|---------------|
| 4-aminophenylmercuric acetate | | |
| CAS-No.: 6283-24-5 EC-No.: 228-497-1 Index-No.: 080-004-00-7 | Acute Tox Oral 2, H300 Acute Tox 1 Dermal, H310 Acute Tox Inhalation 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | <=100% |

See section 16 for the full text of the H statements mentioned above.

SECTION 4: First aid measures

4.1 Description of first-aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses when present. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation: Remove victim to fresh air. Immediately call a poison centre or physician. If breathing stops, immediately apply artificial respiration or oxygen. Take off contaminated clothing and shoes, wear gloves. Rinse skin with water for at least 10 minutes. Call a physician immediately.

Skin contact: Remove contaminated clothing and shoes. Use gloves. Rinse skin with water / shower. Get medical attention immediately. Call a poison center.

If swallowed: Give water to drink (two glasses at most). Seek medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel. Prevent vomit to enter the lungs. Administer activated charcoal (20 -40 g in a 10% slurry).

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 Labelling and section 11

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides

Mercury / mercury oxides

5.3 Advise for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by wearing suitable protective clothing.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate the danger area. Provide adequate ventilation. Observe emergency procedures. Avoid substance contact.

For emergency responders: If specialised clothing is required, take note of section 8. See also above information for non-emergency personnel.

6.2 Environmental precautions

Avoid material to enter drains. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Dispose of properly according to local regulations.

6.4 Reference to other sections

See section 1 for emergency contact information.

See section 8 for appropriate personal protection equipment.

See section 13 for additional disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Work in a fume hood. Wear gloves. Protect eyes. Do not inhale substance.

Hygiene measures

Remove contaminated clothing. Apply preventive skin protection. Wash hands and face before eating, drinking and entering eating areas. See section 2.2 for precautions and section 8 for hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, dark and well ventilated place. Store at room temperature. Store locked up or in an area only accessible for authorized personnel. Do not store in unlabeled containers.

7.3 Specific end uses:

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits

APMA 6283-24-5

ACGIH TWA: 0.1mg/m³ (as Hg) Can be absorbed through the skin.

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NIOSH/GUIDE Ceiling limit: 0.1 ppm Vapores (as Hg) Can be absorbed through the skin.

Z1A : 0.1mg/m³ (as Hg)

8.2 Exposure controls

Engineering measures.

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure contaminants below any recommended or statutory limits.

Personal protective equipment

Eye/face protection

Safety glasses

Skin protection

Chemical resistant gloves should be worn at all times. Remove gloves without touching outer surface. Wash and dry hands.

Body protection

Protective clothing based on task being performed.

Respiratory protection

Required when dust is generated.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | solid |
| Colour | white |
| Odour | odourless |
| Melting/freezing point | 163 to 165 °C |
| Initial boiling point and boiling range | No data available |
| Flash point | product does not sustain combustion |
| Evaporation rate | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | Not considered to be flammable |
| Upper/lower flammability or explosive limits | No data available |
| pH | No data available |
| Water solubility | No data available |
| Viscosity | No data available |
| Partition coefficient n-octanol/water | No data available |
| Explosive properties | Not considered to be a product presenting a risk of explosion |
| Oxidising properties | No data available |

9.2 Other Information

No additional information

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

The product is stable

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – 5 mg/kg

LD50 Inhalation – 4h – 0.051 mg/l – dust/mist

LD50 Dermal – 5mg/kg

LD50 Intravenous -Mouse – 18 mg/kg

Skin corrosion/ irritation

Fatal in contact with skin

Serious eye damage / eye irritation

No data available

Sensitisation

No data available

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

11.2 Additional information

Potential acute health effects

Inhalation

Fatal

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Ingestion

Fatal if swallowed

Skin contact

Fatal

Eye contact

No data available

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

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

PBT Not available

P: Not available, B: Not available, T: Yes

vPvB Not available

vP: Not available, vB Not available

12.6 Endocrine disruptive properties

The substance does not contain components considered to have endocrine disrupting properties at level 0.1% or higher

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Avoid generation of waste as much as possible. Disposal of this product, solutions or other by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless compliant with requirements of local jurisdiction.

Packaging

This material and its container must be disposed of in a safe way. Empty containers may retain some product residues.

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SECTION 14: Transport information

| | Land transport (ADR/RID) | Inland waterway transport (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---------------------------------|---|---|---|---|
| 14.1 UN No. | UN2026 | UN2026 | UN2026 | UN2026 |
| 14.2 UN Proper shipping name | MERCURY COMPOUND, SOLID, N.O.S. (4-aminophenylmercuric acetate) | MERCURY COMPOUND, SOLID, N.O.S. (4-aminophenylmercuric acetate) | MERCURY COMPOUND, SOLID, N.O.S. (4-aminophenylmercuric acetate) Marine Pollutant | MERCURY COMPOUND, SOLID, N.O.S. (4-aminophenylmercuric acetate) |
| 14.3 Transport hazard class(es) | 6.1   | 6.1   | 6.1   | 6.1   |
| 14.4 Packing group | II | II | II | II |
| 14.5 Environmental hazards | Yes | Yes | Yes | Yes |

14.6 Special precautions for user

Transport in closed container

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Authorisations and / or restrictions on use

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: ACUTE TOXIC, ENVIRONMENTAL HAZARDS

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not performed.

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SECTION 16: Other information

Full text of H-statements referred to under sections 2 and 3:

| | |
|------|--|
| H300 | Fatal if swallowed. |
| H310 | Fatal in contact with skin |
| H330 | Fatal if inhaled |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Further information:

The information provided in this document is believed to be correct, but is possibly not all inclusive and is only intend to be used as a guide. Quickzyme Biosciences B.V. shall not be held liable for any damage resulting from using this kit component, or from contact with this kit component.