

SAFETY DATA SHEET (SDS)

SDS-AY-2685

Revision number: v1

Rev: 8/24

AUTION Eye Calibrator

Part Number: 108159

For use with the AUTION Eye AI-4510

ARKRAY USA, Inc.

10305 NW 41st Street, Suite 100

Miami, FL 33178 USA

Technical Customer Service Phone:

855.646.3108

SAFETY DATA SHEET

SDS No. : 105639EU
Issue Date : 7 Jan. 2019
Revision Date : 8 Aug. 2024
Ver.3.0

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : AUTION EYE Calibrator

This SDS applies to both Focus and Calibrator, which are the solutions that configure the AUTION EYE Calibrator.

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

The product is applicable for the following purpose of use only. Use exclusive reagents for AUTION EYE AI-4510.

1.3 Details of the supplier of the safety data sheet

ARKRAY FACTORY, Inc.

Address : 1480 Koji, Konan-cho, Koka-shi, Shiga 520-3306, JAPAN

Phone : +81-748-86-6901

Facsimile : +81-748-86-5347

European representative

ARKRAY Europe, B. V.

Address : Prof. J. H. Bavincklaan 2, 1183 AT Amstelveen, THE NETHERLANDS

Phone : +31-20-545-2450

Facsimile : +31-20-545-2459

1.4 Emergency telephone number

Emergency phone : +31-20-545-2450 (9:00~17:00)

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

May be harmful if inhaled and ingested.

May cause eye and skin irritation.

Sodium azide The substance may react with acids producing toxic and explosive hydrogen azide. Reactions with heavy metals (In particular, copper, silver, mercury or their compounds) in the presence of water may produce highly explosive azides. The substance is irritating to the mucous membranes.

3. Composition/information on ingredients

3.2 Mixtures

| Component | Conc. [wt%] | Formula | EINECS No. | CAS No. | Classification Regulation(EC) 1272/2008(CLP) |
|--------------|-------------|------------------|------------|------------|--|
| Sodium Azide | <0.1 | NaN ₃ | 247-852-1 | 26628-22-8 | Acute Tox. 2 - H300 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 |

4. First aid measures

4.1 Description of first aid measures

General notes

Consult a physician. Show this safety data sheet to the doctor in attendance.

Following inhalation

Remove casualty to fresh air and keep at rest. If trouble breathing, get medical attention.

Following skin contact

Immediately wash skin with soap and water. Get medical attention if skin irritation occurs.

Following eye contact

Immediately rinse with plenty of water. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.

Following ingestion

Rinse mouth and give much water to dilute the product.

Never give anything by mouth to an unconscious person. Get medical attention immediately.

Self-protection of the first aider

Wear protective equipment to avoid contact with skin and eyes.

4.2 Most important symptoms and effects, both acute and delayed

No relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, dry chemical powder or Carbon dioxide.

Use agent most appropriate to extinguish fire.

Unsuitable extinguishing media

Not specified

5.2 Special hazards arising from the substance or mixture

Toxic and irritating dust, fumes, or smoke may be emitted.

5.3 Advice for firefighters

Fire-fighters should wear proper protective equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Wear protective equipment. See Section 8.

6.1.2 For emergency responder

If necessary, wear personal protective equipment. For protective equipment see Section 8.

6.2 Environmental precautions

Do not scatter spilled reagent to public water streams.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Pick up the product and wipe the contaminated area with damp cloth. Rinse the used cloth.

6.3.2 For cleans up:

Absorb spilled reagent with inert material (e.g. dry sand), and clean up the site with water after material remove completely.

6.3.3 Other information:

No further relevant information available.

6.4 Reference to other sections

For protective equipment see Section 8.

For disposal see Section 13.

7. Handling and storage

7.1 Precautions for safe handling

Preventive measures (Exposure Control for handling personnel)

Use proper personal protective equipment as indicated in Section 8.

Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from dust and direct sunlight. Store at 2-8°C. Do not freeze. Right side up with care.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1 Control parameters

The product does not contain any substances for which the allowable concentration has been set.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Handle in a well-ventilated area.

8.2.2 personal protection equipment:

8.2.2.1 Eye/face protection

Use safety goggles (glasses) if necessary.

8.2.2.2 Skin protection

Hand protection

Use rubber gloves if necessary.

Other skin protection:

Wear suitable protective clothing if necessary.

8.2.2.3 Respiratory protection

No data available.

8.2.2.4 Thermal hazards

No data available.

8.2.3 Environmental exposure controls

For environmental exposure controls, see Section 6.2.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|-------------------|
| Physical state | Liquid |
| Colour | Cloudy |
| Odour | None |
| Odour threshold | No data available |
| Melting point/freezing point | No data available |
| Boiling point and boiling range | No data available |
| Flammability | No data available |
| Lower and upper explosion limit | No data available |
| Flash Point | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | No data available |
| Kinematic viscosity | No data available |
| Solubility | No data available |
| Partition coefficient n-octanol/water(log value) | No data available |
| Vapour pressure | No data available |
| Density and/or relative density | No data available |
| Relative vapour density | No data available |
| Particle characteristics | Not applicable |

9.2 Other information

No relevant information available.

10. Stability and reactivity

10.1 Reactivity

Stable under ordinary conditions of use and storage.

10.2 Chemical stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4 Conditions to avoid

Sunlight and high temperature condition.

10.5 Incompatible materials

Store at a distance from incompatible materials.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

11. Toxicological information**11.1 Information on hazard classes as defined in Regulation(EC) No 1272/2008**

| | |
|-----------------------------------|--|
| Acute toxicity | |
| Oral | Based on available data, the classification criteria are not met.(Mixture) rat LD50 45 mg/kg (Sodium azide) |
| Dermal | Based on available data, the classification criteria are not met. |
| Inhalation | Based on available data, the classification criteria are not met. |
| 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 or 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. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| 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. |

11.2 Information on other hazards

No data available.

12. Ecological information**12.1 Toxicity**

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

Algae (Pseudokirchneriella subcapitata) ErC50/96H 348µg/L(Sodium azide)

12.2 Persistence and degradability

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

1 % by HPLC (Sodium azide)

12.3 Bioaccumulative potential

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

Low residualibity (Sodium azide)

12.4 Mobility in soil

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

Log Pow: <0.3 (Sodium Azide)

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects

No data available.

13. Disposal considerations**13.1 Waste treatment methods****13.1.1 Product/Packaging disposal**

Dispose of in a manner consistent with federal, state, and local regulations.

13.1.2 Waste treatment-relevant information

After removing the contents of the vessel, dispose of in a manner consistent with federal, state, and local regulations.

13.1.3 Sewage disposal-relevant information

Do not dump this product into sewers, on the ground or into any body of water.

13.1.4 Other disposal recommendations

Observe all federal, state, and local environmental regulation.

14. Transport information**14.1 UN number or ID number**

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.2 UN proper shipping name

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.3 Transport hazard class(es)

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.4 Packing group

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.5 Environmental hazards

ADR/RID: N/A

IMDG Marine pollutant: N/A

IATA: N/A

14.6 Special precautions for user

When transporting, make sure that there are no leaks in the container, load it so that it does not fall over, fall, or be damaged, and make sure to prevent it from collapsing.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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

(EC) No 1907/2006 (REACH)

(EC) No 1272/2008 (CLP)

(EU) No 453/2010

(EU) No 2015/ 830

(EU) 2020/878

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information**The date of preparation and revision of the SDS**

| | | |
|---------|------------------------------|--|
| Ver.1.0 | Prepared on 1 December 2008. | |
| Ver.1.1 | Revised on 25 March 2021: | Deleted product number in Section 1.1 Product identifier. |
| Ver.2.0 | Revised on 30 November 2021: | Revised a new format in accordance with Regulation(EU) 2020/878. |
| Ver.3.0 | Revised on 4 August 2024: | Revised Section 1.1 Product identifier |

Key literature references

Package insert

IMDG Code

IATA Dangerous Goods Regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Not applicable

Further information

The above information contained herein is based on the data available to us and is believed to be correct. However, ARKRAY, Inc. bears no warranty expresses or implies regarding the accuracy of these data or the results to be obtained from the use thereof.

ARKRAY, Inc. assumes no responsibility for injury caused from the use of the product described herein.