

SAFETY DATA SHEET (SDS)

SDS-AN-2177

Revision number: v3

Rev: 5/23

S. G. Calibrator H

Part Number: 100672

For use with the AUTION Max AX-4280, AX-4030, and AX-4060

ARKRAY USA, Inc.

5182 West 76th Street

Minneapolis, Minnesota 55439

Technical Customer Service Phone:

855.646.3108

SAFETY DATA SHEET

SDS No. : 100672EU
Issue Date : 17 Jan. 2014
Revision Date : 31 May 2023
Ver.3.0

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

1.1 Product identifier

Product name: S. G. Calibrator H

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. S. G. Calibrator H solution is used exclusively for performance inspection of AUTION Analyzers.

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

Mild skin irritant with acute toxicity if ingested per definitions of U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and 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 in non-aqueous form 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. Manufactured in solution at <0.1% by weight, Sodium azide is not explosive with minimal acute toxicity. 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)
Sucrose	< 10 %	C ₁₂ H ₂₂ O ₁₁	200-334-9	57-50-1	---
Sodium azide	< 0.1 %	NaN ₃	247-852-1	26628-22-8	Acute Tox. (Oral) 2; H300, Acute Aqua. Tox. 1; H400, Chronic Aqua. Tox. 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 for over 15 minutes. 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 further relevant information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information is available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water

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

Evacuate the contaminated area. Avoid contact with skin and eyes directly.

6.1.2 For emergency responder

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

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Pay attention to avoid being released to the environment.

6.3 Methods and material for containment and cleaning up.

6.3.1 For containment:

Wipe with absorbent such as paper towel.

6.3.2 For cleans up:

Rinse with running water.

6.3.3 Other information:

No 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)

Wash hands after use.

For protective equipment, see Section 8.

7.2 Conditions for safe storage, including any incompatibilities.

Store product in a refrigerator at temperature of 2-8 °C. Avoid direct sunlight.

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 accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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:

Use 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
Color	Colorless
Odor	No data available
Odor 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	3.3 – 4.3 (at 25 °C)
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water(log value)	No data available
Vapor pressure	No data available
Density and/or relative density	No data available
Relative vapor 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 normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4 Conditions to avoid.

Sunlight, heat, and humidity

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 U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and 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 sensitization	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 Bio accumulative 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.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not 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**

If the product is unused, dilute the product with a large amount of water before disposing.

13.1.2 Waste treatment-relevant information

Empty containers should be an approved waste-handling site for recycling or disposal.

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

If used product, ask a licensed disposal company. Observe all federal, state, and local environmental regulations.

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 17 January 2014	
Ver. 1.1	Revised on 10 June 2016	European representative's address has changed.
Ver. 1.2	Revised on 20 December 2016	Corrected the wording in 15.1.
Ver. 2.0	Revised on 30 November 2021	New format consistent with Regulation (EU) 2020/878.
Ver. 3.0	Revised on 31 May 2023	Updated hazard classification and reference to U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200)

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 this data or the results to be obtained from the use thereof.

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