

## 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

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#### 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 <sub>12</sub> H <sub>22</sub> O <sub>11</sub> | 200-334-9  | 57-50-1    | ---                                                                             |
| Sodium azide | < 0.1 %     | NaN <sub>3</sub>                                | 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<br>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)<br>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.