

Issuing Date 10-Sep-2018

Revision date 17-Apr-2024

Revision Number 2

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier****Product Name** Alethia Sample Preparation Apparatus**Other means of identification****Product Code(s)** 2849**Recommended use of the chemical and restrictions on use****Recommended use** In vitro diagnostic**Uses advised against** No information available**Details of the supplier of the safety data sheet****Manufacturer Address**

Meridian Bioscience, Inc.  
3471 River Hills Drive  
Cincinnati, Ohio 45244  
(800) 343-3858

**E-mail Address** [www.meridianbioscience.com](http://www.meridianbioscience.com)**Emergency telephone number**

**Emergency Telephone** Emergency telephone CHEMTREC:  
US: 1-800-424-9300  
International: 1-703-527-3887  
Philippines: 1800 1 322 0553  
Taiwan: 00801-49-1821  
Thailand: 1800014808  
South Korea: 080-880-0454  
Asia-Pacific: +65 3163 8374

**2. HAZARDS IDENTIFICATION****Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements****Hazard statements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** aqueous solution

**Physical state** Liquid

**Odor** None

**Other information**

Not applicable

**Unknown acute toxicity**

8.836 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

| Chemical name   | CAS No.    | Weight-% | Trade secret |
|-----------------|------------|----------|--------------|
| Sodium chloride | 7647-14-5  | 0.81     | *            |
| Sodium azide    | 26628-22-8 | 0.094    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.  
Consult a physician.

**Skin contact**

Wash skin with soap and water.

**Ingestion**

Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

No information available.

**Effects of Exposure**

No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|                                                                       |                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Large Fire</b>                                                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.                                                                  |
| <b>Specific hazards arising from the chemical</b>                     | No information available.                                                                                                          |
| <b>Explosion data</b>                                                 |                                                                                                                                    |
| <b>Sensitivity to mechanical impact</b>                               | None.                                                                                                                              |
| <b>Sensitivity to static discharge</b>                                | None.                                                                                                                              |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |                              |
|-----------------------------|------------------------------|
| <b>Personal precautions</b> | Ensure adequate ventilation. |
|-----------------------------|------------------------------|

### Environmental precautions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|-------------------------------------------------------|

### Methods and material for containment and cleaning up

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. |
|--------------------------------|------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
|---------------------------|--------------------------------------------------------------------------|

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Limits

| Chemical name              | ACGIH TLV                                                                              | OSHA PEL     | NIOSH                                                                               |
|----------------------------|----------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| Sodium azide<br>26628-22-8 | Ceiling: 0.29 mg/m <sup>3</sup> Sodium azide<br>Ceiling: 0.11 ppm Hydrazoic acid vapor | (vacated) S* | Ceiling: 0.1 ppm HN <sub>3</sub><br>Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub> |

**Appropriate engineering controls**

**Engineering controls**                      Showers  
                                                          Eyewash stations  
                                                          Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      No special protective equipment required.

**Hand protection**                              Wear suitable gloves.

**Skin and body protection**                      No special protective equipment required.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state**                                      Liquid  
**Appearance**                                      aqueous solution  
**Color**                                                  colorless  
**Odor**                                                  None  
**Odor threshold**                                      No information available

| <b><u>Property</u></b>                         | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|------------------------------------------------|----------------------|--------------------------------|
| <b>pH</b>                                      | No data available    | No information available       |
| <b>Melting point / freezing point</b>          | No data available    | None known                     |
| <b>Initial boiling point and boiling range</b> | No data available    | None known                     |
| <b>Flash point</b>                             | No data available    | Open cup                       |
| <b>Evaporation rate</b>                        | No data available    | None known                     |
| <b>Flammability</b>                            | No data available    | None known                     |
| <b>Flammability Limit in Air</b>               |                      | None known                     |
| <b>Upper flammability or explosive limits</b>  | No data available    |                                |
| <b>Lower flammability or explosive limits</b>  | No data available    |                                |
| <b>Vapor pressure</b>                          | No data available    | None known                     |
| <b>Relative vapor density</b>                  | No data available    | None known                     |
| <b>Relative density</b>                        | No data available    | None known                     |
| <b>Water solubility</b>                        | No data available    | Soluble in water               |
| <b>Solubility in other solvents</b>            | No data available    | None known                     |
| <b>Partition coefficient</b>                   | No data available    | None known                     |
| <b>Autoignition temperature</b>                | No data available    | None known                     |
| <b>Hyphen</b>                                  | No data available    | None known                     |
| <b>Kinematic viscosity</b>                     | No data available    | None known                     |
| <b>Dynamic viscosity</b>                       | No data available    | None known                     |

Explosive properties No information available  
 Oxidizing properties No information available

**Other information**

Softening point No information available  
 Molecular weight No information available  
 VOC content No information available  
 Liquid Density No information available  
 Bulk density No information available

## 10. STABILITY AND REACTIVITY

Reactivity No information available.  
 Chemical stability Stable under normal conditions.  
 Possibility of hazardous reactions None under normal processing.  
 Conditions to avoid None known based on information supplied.  
 Incompatible materials None known based on information supplied.  
 Hazardous decomposition products None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.  
 Eye contact Specific test data for the substance or mixture is not available.  
 Skin contact Specific test data for the substance or mixture is not available.  
 Ingestion Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms No information available.

**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 99,999.00 mg/kg  
 ATEmix (dermal) 99,999.00 mg/kg  
 ATEmix (inhalation-gas) 99,999.00 ppm  
 ATEmix (inhalation-dust/mist) 99,999.00 mg/l  
 ATEmix (inhalation-vapor) 99,999.00 mg/l

Unknown acute toxicity 8.836 % of the mixture consists of ingredient(s) of unknown toxicity

| Chemical name                | Oral LD50      | Dermal LD50        | Inhalation LC50                 |
|------------------------------|----------------|--------------------|---------------------------------|
| Sodium chloride<br>7647-14-5 | 3 g/kg ( Rat ) | 10 g/kg ( Rabbit ) | 42 g/m <sup>3</sup> ( Rat ) 1 h |

|                            |                  |                                      |                                                  |
|----------------------------|------------------|--------------------------------------|--------------------------------------------------|
| Sodium azide<br>26628-22-8 | 27 mg/kg ( Rat ) | 20 mg/kg ( Rabbit ) 50 mg/kg ( Rat ) | ( 50+mg%2fkg++(+Rat+)+20+mg<br>%2fkg++(+Rabbit+) |
|----------------------------|------------------|--------------------------------------|--------------------------------------------------|

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Skin corrosion/irritation</b>         | No information available. |
| <b>Serious eye damage/eye irritation</b> | No information available. |
| <b>Respiratory or skin sensitization</b> | No information available. |
| <b>Germ cell mutagenicity</b>            | No information available. |
| <b>Carcinogenicity</b>                   | No information available. |
| <b>Reproductive toxicity</b>             | No information available. |
| <b>STOT - single exposure</b>            | No information available. |
| <b>STOT - repeated exposure</b>          | No information available. |
| <b>Aspiration hazard</b>                 | No information available. |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical name                | Algae/aquatic plants | Fish                                                                                                                                                                                                                                                                                                                                                                                       | Toxicity to microorganisms | Crustacea                                                                                      |
|------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|
| Sodium chloride<br>7647-14-5 | -                    | 5560 - 6080: 96 h<br>Lepomis macrochirus<br>mg/L LC50 flow-through<br>12946: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 4747 - 7824: 96 h<br>Oncorhynchus mykiss<br>mg/L LC50 flow-through<br>6020 - 7070: 96 h<br>Pimephales promelas<br>mg/L LC50 static 6420 -<br>6700: 96 h Pimephales<br>promelas mg/L LC50<br>static 7050: 96 h<br>Pimephales promelas<br>mg/L LC50 semi-static | -                          | 1000: 48 h Daphnia<br>magna mg/L EC50 340.7<br>- 469.2: 48 h Daphnia<br>magna mg/L EC50 Static |
| Sodium azide<br>26628-22-8   | -                    | 0.7: 96 h Lepomis<br>macrochirus mg/L LC50<br>0.8: 96 h Oncorhynchus<br>mykiss mg/L LC50 5.46:<br>96 h Pimephales<br>promelas mg/L LC50<br>flow-through                                                                                                                                                                                                                                    | -                          | -                                                                                              |

**Persistence and degradability** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

#### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### Contaminated packaging

Do not reuse empty containers.

| Chemical name              | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|----------------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Sodium azide<br>26628-22-8 | -                                    | P105                   | -                      | -                      |

| Chemical name              | California Hazardous Waste Status |
|----------------------------|-----------------------------------|
| Sodium azide<br>26628-22-8 | Ignitable<br>Reactive             |

### 14. TRANSPORT INFORMATION

#### DOT

Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

|               |          |
|---------------|----------|
| TSCA          | -        |
| DSL/NDSL      | -        |
| EINECS/ELINCS | -        |
| ENCS          | -        |
| IECSC         | Complies |
| KECL          | -        |
| PICCS         | Complies |
| AIIC          | Complies |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name             | SARA 313 - Threshold Values % |
|---------------------------|-------------------------------|
| Sodium azide - 26628-22-8 | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name              | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|----------------------------|--------------------------|------------------------------------|
| Sodium azide<br>26628-22-8 | 1000 lb                  | 1000 lb                            |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**US State Regulations** This product may contain substances regulated by state right-to-know regulations

| Chemical name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Sodium azide<br>26628-22-8 | X          | X             | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                  |                |                    |                       |
|-------------|------------------|----------------|--------------------|-----------------------|
| <b>NFPA</b> | Health hazards 0 | Flammability 0 | Instability 0      | Special hazards -     |
| <b>HMIS</b> | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal protection - |

**Issuing Date** 10-Sep-2018

**Revision date** 17-Apr-2024

**Revision Note** No information available.

**Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

**End of Safety Data Sheet**