

SAFETY DATA SHEET

Revision Date: January 2024

ARLINGTON
SCIENTIFIC

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|--------------------|--|
| Product name: | ASI Sickle Cell Test |
| Product number: | 200025 25 Test Kit 200100 100 Test Kit |
| Brand: | ASI |
| Company: | Arlington Scientific Inc. 1840 N Technology Drive Springville, UT 84663 USA |
| Telephone: | (801) 489-8911 |
| Fax: | (801) 489-5552 |
| Emergency phone #: | (801) 489-8911 |

2. HAZARDS IDENTIFICATION

| | |
|----------------------------------|--|
| Emergency overview: | This product is not classified according to the Global Harmonized System (GHS). |
| OSHA hazards: | NFPA and HMIS ratings: Health = 2; Flammability = 0; Reactivity = 0 |
| Flammable liquid: | None |
| Target organ effect: | None |
| Harmful by ingestion: | Wash hands thoroughly after handling, even when gloves have been worn. Do not eat, drink, or apply cosmetics in the area where samples are handled. Do not pipet by mouth. |
| Harmful by skin absorption: | Wear gloves and especially cover any cuts, abrasions, or skin lesions. Dispose of gloves, pipets, stirrers, test cards, and used reagent containers as biohazardous material. Wash hands thoroughly after removing gloves. Wear outer protective garment such as a lab coat or gown. |
| Irritant: | |
| Target organs: | None |
| Potential health effects: | |
| Inhalation: | May cause irritation. If irritation persists seek medical attention. |
| Skin: | May cause irritation. Promptly flush area with large amounts of water for 15 minutes. If irritation persists seek medical attention. |
| Eyes: | May cause irritation. Promptly flush area with large amounts of water for 15 minutes. If irritation persists seek medical attention. |
| Ingestion: | May cause irritation. Seek medical attention. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | Reagents contained in kit: | Composition |
|----------|----------------------------|---|
| Formula: | Sickle Cell Buffer | – contains potassium phosphate, saponin and sodium azide as a preservative. |
| | Sickle Cell Lysing Reagent | – contains sodium hydrosulfate powder. |
| | Sickle Cell Urea Reagent | – contains urea and sodium azide. |
| | | |

4. FIRST AID MEASURES

| | |
|--------------------------|---|
| General Advice: | Symptoms of mild discomfort may be exhibited after several hours; therefore observe for any medical symptoms for at least 48 hours. |
| If inhaled: | Remove from source to fresh air. If breathing becomes difficult, call a physician. |
| In case of skin contact: | Wash thoroughly with soap and water. Remove contaminated clothing. Call a physician. |
| In case of eye contact: | Flush with large amounts of water or sterile eye wash for 15 minutes. Use fingers to separate the eyelids for effective flushing. Call a physician. |
| If swallowed: | If conscious, wash out mouth with water. Call a physician. |

SAFETY DATA SHEET

Revision Date: January 2024

ARLINGTON
SCIENTIFIC

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Flammable properties: | None |
| Suitable extinguishing media: | CO2, or multiple dry chemical or water spray. |
| Special protective equipment: for Fire-Fighters | No special measures required. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|------------------------------|---|
| Personal precautions: | Personal precautions, protective equipment, and emergency procedures are not required. |
| Environmental precautions: | No known risk to environment. |
| Methods for cleaning up: | Clean-up with water moistened cloth or mop. After material has been cleaned-up and removed, wash the spilled area site with a disinfectant cleaner. |

7. HANDLING AND STORAGE

| | |
|----------|--|
| Handling | Ensure adequate ventilation and fresh air supply in HVAC |
| Storage | Store at room temperature prior to use. After adding lysing reagent store buffer at 2 to 8°C Store sickle cell lysing reagent and urea reagent at room temperature. Bring all reagents to room temperature before use. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|--------------------------|--|
| Personal precautions | Standard laboratory protective coat, gloves and eyewear. |
| Respiratory protection | None required |
| Hand protection | Surgical gloves |
| Eye protection | Standard laboratory eye ware |
| Skin and body protection | Typical laboratory coat or gown |
| Hygiene measures | No special measures required |
| Personal precautions | No special precautions required |
| Respiratory protection | Wear surgical mask if indicated by local procedures |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------|---|
| Appearance | |
| Form | Lysing is white powder. Buffer and urea are liquids. |
| Color | Liquids are transparent. Lysing is a white powder. |
| Odor | Liquids have no odor. Lysing has a slight pungent odor. |
| Safety data | Sickle cell buffer contains potassium phosphate, saponin and sodium azide. Azides in contact with lead and copper plumbing may react to form highly explosive metal azides. When disposing of reagents containing azide, flush down the drain with large amounts of water to prevent azide build-up. Lysing contains sodium hydrosulfate powder. (Stable until expiration date) Urea contains urea and sodium azide. |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|---|
| Storage stability | Room temperature |
| Conditions to avoid | Avoid temperatures outside the range of room temperature. Avoid freezing. |
| Materials to avoid | None |
| Hazardous decomposition products | None |
| Hazardous reactions | None |

11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: January 2024

ARLINGTON
SCIENTIFIC

| | |
|--------------------------|-----------------------|
| Potential health effects | |
| Inhalation | May cause irritation |
| Skin | May cause irritation |
| Eyes | May cause irritation |
| Ingestion | Harmful if swallowed. |
| Target organs | None |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|---|
| Elimination information | No ecological effects currently identified. |
|-------------------------|---|

13. DISPOSAL CONSIDERATIONS

| | |
|---------|---|
| Product | ASI reagents contain sodium azide. Azides in contact with lead and copper plumbing may react to form highly explosive metal azides. When disposing of reagents containing azide, flush down the drain with large amounts of water to prevent azide build-up. Smaller quantities can be disposed of with solid waste. This product is not considered an RCRA hazardous waste. Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. |
|---------|---|

14. TRANSPORTATION INFORMATION

| | |
|----------|----------------|
| DOT (US) | Non-hazardous. |
|----------|----------------|

15. REGULATORY INFORMATION

| | |
|--|--------------------------|
| | FDA 510(k) K960947 |
| | CLIA, Moderately complex |

16. OTHER

| | |
|--|---|
| | To the best of our knowledge, the information provided in this Safety Data Sheet is accurate. ASI does not assume any liability for the accuracy or completeness of the information. Final suitability of a material is the responsibility of the user. All materials may present unknown hazards and should always be used with caution. Although hazards are described in this Safety Data Sheet, ASI does not guarantee that these issues are the only hazards that exist. |
|--|---|