

**MATERIAL SAFETY DATA SHEET**

NAME OF PRODUCT: **Asanté DNA Specimen Collection Kit**

FILE NO.: LN-6113-00

MSDS DATE: 20 Oct 2014

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Asanté DNA Specimen Collection Kit  
**SYNONYMS:** None  
**PRODUCT CODES:** 1800

**MANUFACTURER:** Sedia Biosciences Corp  
**ADDRESS:** 4900 NE 122<sup>nd</sup> Ave  
 Portland OR 97230

**EMERGENCY PHONE:** +1 (503) 459-4159  
**FAX PHONE:** +1 (503) 459-4168

**SECTION 2: HAZARDS IDENTIFICATION**

**Hazard description:**

The DNA Specimen Collection Device Bulk Sample Buffer contains <0.03% 2-Methyl-3(2H)-isothiazolone. The chemical, physical and toxicological properties of the 2-Methyl-3(2H)-isothiazolone have not been thoroughly investigated. At the original concentration, [9.9%], this biocidal preservative is irritating to eyes and skin, and may be detrimental if enough is ingested (quantities above those found in this kit). The potential for these adverse health effects is unknown for the highly diluted small volume of 2-Methyl-3(2H)-isothiazolone in this kit, but unlikely if handled appropriately with the requisite Good Laboratory Practices and Universal Precautions and when following instructions for use provided in the Product Insert of the kit.

**Information pertaining to particular dangers for man and environment:**

- May be harmful if swallowed.
- May be irritating to eyes and skin.

**Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

**NFPA ratings (scale 0 - 4)**

- Health = 1
- Fire = 0
- Reactivity = 0

**WHMIS ratings (scale 0 - 4)**

- Health = 1
- Fire = 0
- Reactivity = 0

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Kit Components:** DNA Collection Swab and Sample Buffer

**Hazardous Ingredients**

CAS#	EINECS	Chemical Name	Kit Component (s)	Weight % as used	Classifications, Hazard and Risk Statements
CAS 2682-20-4	220-239-6	2-Methyl-3(2H)-isothiazolone	Sample Buffer	<0.03%	For raw material [9.5-9.9%] Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Skin Sens.1; STOT SE 3; Aquatic Acute 1; H302, H314, H317, H318, H331, H335, H400, H410.
					See <b>SECTION 15</b> for detailed Hazard and Risk Statements for material at concentrations used. See <b>SECTION 16</b> for full text of above H-statements.

No known hazards associated with DNA Collection swab.

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**SECTION 4: FIRST AID MEASURES**

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- **After inhalation:** Remove casualty immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
- **After skin contact:** FLUSH IMMEDIATELY with plenty of water for at least 15 minutes. Remove and launder contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention.
- **After eye contact:** FLUSH IMMEDIATELY with copious amounts of water for at least 15 minutes, with the eyes held open. Have victim remove contact lenses. Get prompt medical attention but FLUSH FIRST.
- **After swallowing:** Do not induce vomiting. Dilute the ingested product by giving water to drink. Seek medical attention. Never give anything by mouth to an unconscious person.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**NFPA HAZARD CLASSIFICATION**

HEALTH: 1                      FLAMMABILITY: 0                      REACTIVITY: 0  
OTHER:

**HMIS HAZARD CLASSIFICATION**

HEALTH: 1                      FLAMMABILITY: 0                      PHYSICAL HAZARD: 0  
PROTECTION: Goggles, gloves, and lab coat.

**EXTINGUISHING MEDIA:**

**Suitable extinguisher media**

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Wear self-contained breathing apparatus for firefighting if necessary.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None identified.

**HAZARDOUS DECOMPOSITION PRODUCTS: N/A**

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**This information pertains to Sample Buffer only.**

**Personal precautions, protective equipment, and emergency procedures:**

Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation, evacuate personnel to safe areas.

**Environment precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Avoid discharge into the environment.

**Methods and materials for containment and cleaning up:**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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**SECTION 7: HANDLING AND STORAGE**

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**This information pertains to Sample Buffer only.**

**PRECAUTIONS FOR SAFE HANDLING:**

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Wash hands thoroughly after use.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Keep container tightly closed in a dry and well-ventilated place.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Chemical</b>	<b>2-Methyl-3(2H)-isothiazolone</b>
<b>ENGINEERING CONTROLS:</b>	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.
<b>VENTILATION:</b>	N/A
<b>RESPIRATORY PROTECTION:</b>	Exceeding exposure limits is unlikely during normal usage. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved appropriate government standards such as NIOSH (US) or CEN (EU).
<b>EYE AND FACE PROTECTION:</b>	Use safety glasses or goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>SKIN PROTECTION:</b>	Handle with vinyl, latex or nitrile gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>OTHER PROTECTIVE CLOTHING OR EQUIPMENT:</b>	Must wear lab coat while handling the product for extra layer of protection.
<b>WORK HYGIENIC PRACTICES:</b>	Practice good hygienic practices while handling the product. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling.
<b>EXPOSURE GUIDELINES:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.
<b>SECTION 8 NOTES:</b>	N/A

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****This information pertains to Sample Buffer only.****General Information**

Form:	Fluid.
Color:	Colorless.
Odor:	None.

**PHYSICAL STATE:**

<b>pH AS SUPPLIED:</b>	No data available.
<b>pH (Other):</b>	No data available.
<b>BOILING POINT:</b>	No data available.
<b>MELTING POINT:</b>	No data available.
<b>FREEZING POINT:</b>	No data available.
<b>VAPOR PRESSURE (mmHg):</b>	No data available.
<b>VAPOR DENSITY (AIR = 1):</b>	No data available.
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	No data available.
<b>EVAPORATION RATE:</b>	No data available.
<b>FLASH POINT:</b>	Not applicable.
<b>AUTO IGNITING:</b>	Not applicable.
<b>DANGER OF EXPLOSION:</b>	Not applicable.
<b>DENSITY AT 20°C:</b>	Undetermined.
<b>MISCIBILITY WITH WATER:</b>	Fully.

To the best of our knowledge, the chemical and physical properties have not been investigated at product concentrations used.

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:**

Stable under recommended storage conditions.

**CONDITIONS TO AVOID (STABILITY):**

No data available.

**INCOMPATIBILITY (MATERIAL TO AVOID):**

Strong oxidizing agents, Amines, Mercaptans, Reducing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

Other decomposition products-no data available.

**HAZARDOUS POLYMERIZATION: N/A**

**CONDITIONS TO AVOID (POLYMERIZATION):**

No data available.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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|---|--------------------|
| - <b>Acute toxicity</b>                       | No data available. |
| - <b>Primary irritant effect on the skin:</b> | No data available. |
| - <b>Primary irritant effect on the eye:</b>  | No data available. |
| - <b>Sensitization:</b>                       | No data available. |
| - <b>Signs and Symptoms of Exposure:</b>      | No data available. |
| - <b>Synergistic effects:</b>                 | No data available. |

**TOXICOLOGICAL INFORMATION:**

To the best of our knowledge, the toxicological properties have not been thoroughly investigated at product concentrations used.

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**SECTION 12: ECOLOGICAL INFORMATION**

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No known data for product concentrations used. Avoid disposal into the environment.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**Waste disposal method:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

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**SECTION 14: TRANSPORT INFORMATION**

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<b>U.S. DEPARTMENT OF TRANSPORTATION</b>	No restrictions.
<b>WATER TRANSPORTATION</b>	No restrictions.
<b>AIR TRANSPORTATION</b>	No restrictions.

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**SECTION 15: REGULATORY INFORMATION**

**SARA Section 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III; Section 302.

**Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III; Section 313.

**TSCA (Toxic Substances Control Act, Proposition 65):**

**Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenicity:**

**EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Hazard symbols:** Health Hazard.

**Hazard Statements:**  
 H303 May be harmful if swallowed.  
 H313 May be harmful in contact with skin.  
 H320 Cause eye irritation.

**Risk Statements:**  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P301 P313 If swallowed: Get medical advice/attention.  
 P302 P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 P351 P338 IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.  
 P333 P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337 P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P501 Dispose of contents/ container to an approved waste disposal plant

**SECTION 16: OTHER INFORMATION**

**Full text of H-statements referred to in section 3 for raw material hazardous ingredients. (Refer to Section 15 for H-statements for material at concentration used.)**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye dam.	Serious eye damage
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT SE	Specific Organ toxicity- single exposure

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**TSE/BSE STATEMENT:** Asanté DNA Sample Buffer contains bovine serum proteins at a concentration of 0.02 to 0.1%. Said bovine serum proteins are collected from cattle 30 months old or less in the USA in establishments registered with the USDA. The animals received ante and post-mortem inspections under a veterinarian's supervision and were found apparently free from infections and contagious diseases. At no time during collection or processing was the material co-mingled with any other material of animal origin. Based on this information, Sedia believes this product is free from Transmittable Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE)

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