

# Independent Forensics of Illinois

Material Safety Data Sheet

Date Updated: 01/2014

## **RSID™-Semen Lab kit Universal Buffer #0230**

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name: RSID™-SEMEN Lab Kit, Universal Buffer**

**Synonyms: None.**

**Company Identification: Independent Forensics, 500 Waters Edge, Suite 210, Lombard IL 60148 U.S.A.**

**For information, call: (1)-708-234-1200 , info@ifi-test.com**

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| CAS#       | Chemical Name      | SARA 313 |
|------------|--------------------|----------|
| None       | TRIS Buffer        |          |
| 7647-14-5  | Sodium Chloride    | No       |
| 7447-40-7  | Potassium chloride | No       |
| 9005-64-5  | Tween-20           | No       |
| 26628-22-8 | Sodium Azide       | Yes      |
| 9048-46-8  | BSA fraction V     | No       |

### SECTION 3 - HAZARDS IDENTIFICATION

**Emergency Overview**

**Appearance: clear liquid**

**Warning! Causes eye irritation. May cause skin and respiratory tract irritation.**

**This product contains sodium azide, which has been classified as harmful in the concentration range of 0.1-1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains. Target Organs: Eyes.**

**Potential Health Effects Eye: Causes eye irritation.**

**Skin: May cause skin irritation.**

**Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. May cause gastric disturbances and electrolytic imbalance. Ingestion of large amounts of sodium chloride may cause nausea, vomiting, rigidity or convulsions.**

**Continued exposure can produce coma, dehydration and internal organ congestion.**

**Chronic: No information found.**

#### **SECTION 4 - FIRST AID MEASURES**

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0**

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

#### **SECTION 7 - HANDLING AND STORAGE**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. **Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### **Exposure Limits**

**OSHA Vacated PELs:** Sodium Chloride: No OSHA Vacated PELs are listed for this chemical. Sodium phosphate, dibasic: No OSHA Vacated PELs are listed for this chemical. Potassium phosphate, Monobasic: No OSHA Vacated PELs are listed for this chemical. Potassium chloride: No OSHA Vacated PELs are listed for this chemical. Sodium Azide: 0.1 ppm skin as HN<sub>3</sub>, 0.3 mg/m<sup>3</sup> skin as NaN<sub>3</sub> (Ceilings). BSA Fraction V: No OSHA Vacated PELs are listed for this chemical. Tween-20: 15 mg/3D-I mild, skin.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Appearance:** Clear.

**Odor:** None reported.

**pH:** 7.2-7.6 at 25°C

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Soluble.

**Specific Gravity/Density: Not available.**

**Molecular Formula: Mixture.**

**Molecular Weight: Not available.**

#### **SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability: Stable.**

**Materials to Avoid: Strong oxidizing agents, Strong acids.**

**Hazardous Decomposition Products: Nature of decomposition products not yet known.**

**Hazardous Polymerization: Will not occur.**

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**Skin contact: May cause skin irritation.**

**Skin absorption: May be harmful if absorbed through the skin.**

**Eye contact: May cause eye irritation.**

**Ingestion: May be harmful if swallowed.**

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**No information available.**

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

**Contact a licensed professional waste disposal service to dispose of this material.**

**Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.**

**SECTION 14 - TRANSPORT INFORMATION**

|                       | <b>US DOT</b>                                | <b>Canada TDG</b>               |
|-----------------------|--|---------------------------------|
| <b>Shipping Name:</b> | <b>Not regulated as a hazardous material</b> | <b>No information available</b> |
| <b>Hazard Class</b>   |  |                                 |
| <b>UN Number</b>      |  |                                 |
| <b>Packing Group</b>  |  |                                 |

**SECTION 15 - REGULATORY INFORMATION**

**United States Regulatory Information**

**SARA Listed: No**

**Canada Regulatory Information**

**No information available**

**WHMIS classification: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.**

**DSL: No**

**NDSL: No**

**SECTION 16 - ADDITIONAL INFORMATION**

**Disclaimer: For laboratory use only. Not for drug, household, or other uses.**

**Warranty: The above information is believed to be correct but is not all inclusive and should only be used as a guide. Independent Forensics of Illinois is not liable for damage resulting from the handling of the above product.**