SECTION 1: Product and company identification

Product Identifier
   - Product Form: Substance
   - Name: RSID™-Blood Extraction Buffer
   - Synonyms: None
   - Intended Use of Product: aqueous extraction of biological evidence, as directed
   - Contact information: Independent Forensics, 500 Waters Edge, Suite 210
     Lombard IL 60148 U.S.A.
     - phone (1) 708.234.1200; fax (1) 708.978.5115;
     - e-mail info@ifi-test.com
   - Emergency telephone: 1-866-424-2400

SECTION 2: Hazards identification

Classification of substance or mixture: Aqueous buffer

Hazard pictogram: ⚠️

Signal word: Warning

Hazard Statements:
   - H303 May be harmful if swallowed
   - H313 May be harmful if contact with skin
   - H316 May cause mild skin irritation
   - H320 Causes eye irritation

Precautionary Statements:
   - P262: Do not get in eyes, on skin, or on clothing
   - P270: Do not eat, drink or smoke when using this product
   - P303 +P361 + P353: IF ON SKIN (or hair); remove/take off immediately all contaminated clothing. Rinse skin with water/shower
   - P305+P351+P338; IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other hazards: no additional information available

Unknown acute toxicity: no data available
SECTION 3: Composition / Information on Ingredients

Substances
   CAS No : 7647-14-5; 7447-40-7; 9005-64-5; 26628-22-8; 9048-46-8, 77-86-1
   : Sodium chloride; Potassium chloride; Tween-20; Sodium azide; BSA fraction V, Tris
   0.02%sodium azide

SECTION 4: First aid measures

Description of first aid measures
First aid measures general : Remove contaminated clothing, flush area with water
First aid measures after skin contact : Remove contaminated clothing, flush area with water
First aid measures after eye contact : Rinse cautiously with water for several minutes, remove contacts if convenient, continue water flushing
First aid measures after ingestion : Rinse mouth, DO NOT INDUCE VOMITING

Most important symptoms and effects, both acute and delayed
Symptoms/injuries after eye contact : Eye irritation
Symptoms/injuries after skin contact : Skin irritation
Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea

SECTION 5: Fire-fighting measures

Extinguishing media : Carbon dioxide, Dry chemical, Water spray or fog

Special hazards arising from substance : No reactivity hazard
   Fire hazard : No significant fire hazard
   Explosion hazard : No significant explosion hazard
   Reactivity : No significant reactivity

Advice for fire-fighters : Exercise caution when fighting any fire
Protection during fire-fighting : Fire-fighters should wear full protective gear.
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures    : Use personal protective equipment (PPE). Handle with good laboratory hygiene and safety practice. Area should be equipped with shower and eye-wash station

For non-emergency personnel   : Use appropriate personal protective equipment (PPE)
Emergency procedures    : Evacuate unnecessary personnel

For emergency responders   : Use appropriate personal protective equipment (PPE)
Emergency procedures    : Flush area with water

Environmental precautions    : Clean up spills immediately. Prevent entry to sewers and public waters

Methods for material containment and clean up

For containment    : Absorb and/or contain spill with inert material, place in suitable container

Methods for cleaning up    : Clean up spills immediately and dispose of waste safely

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when handling    : None

Precautions for safe handling    : Avoid contact with skin, eyes or hair. Use personal protective equipment (gloves) when handling

Hygiene measures    : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water

Conditions for safe storage, including any incompatibilities

Technical measures    : No special measures
Storage conditions    : 2-8°C storage is recommended. Keep container closed when not in use

Incompatible products    : None
Incompatible materials    : None
SECTION 8: Exposure controls / Personal protection

Control Parameters
Sodium azide CAS 26628-22-8 : ACGIH Threshold limit value 0.29 mg/m³

Exposure Controls : Adequate ventilation

Personal protective equipment : Protective eyewear, gloves

Hand protection : chemically resistant gloves
Eye protection : safety eyewear
Skin and body protection : laboratory coat
Other information : when using do not eat, drink or smoke

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : liquid
Appearance : clear liquid
Color : colorless
Odour : none
Odour threshold : no data available
pH : neutral
Relative evaporation : no data available
Melting point : 275°C
Solubility : soluble in water
Initial boiling point range : aqueous solution, 100°C
Flash point : no data available
Evaporation rate : no data available
Flammability : no data available
Vapour pressure : no data available
Relative vapour density at 20°C : no data available
Density : 1.85 g/cm³
Solubility : very soluble
Log Pow : no data available
log Kow : no data available
Viscosity : no data available
Explosive properties : no data available
Molecular formula : N₃Na
Molecular weight : 65.01 gr/mole
SECTION 10: Stability and reactivity

Reactivity : Contact with acid liberates gas

Chemical Stability : Stable

Possibility of hazardous reactions : acids, metals, acid chlorides

SECTION 11: Toxicological information

LD50/LC50:

CAS# 26628-22-8:

- Inhalation, mouse : LC50 = 32400 µg/m³;
- Inhalation, rat : LC50 = 37 mg/m³;
- Oral, mouse : LD50 = 27 mg/kg;
- Oral, rat : LD50 = 27 mg/kg;
- Skin, rabbit : LD50 = 20 mg/kg;
- Skin, rat : LD50 = 50 mg/kg;

Skin corrosion/irritation : irritant

Eye corrosion/irritation : irritant

Respiratory or skin sensitization : irritant

Germ cell mutagenicity : not classified

Carcinogenicity : not classified

Reproductive toxicity : not classified

Specific organ toxicity (single exposure) : not classified

Specific organ toxicity (repeated exposure): not classified

SECTION 12: Ecological information (non-mandatory)

Toxicity

Fish : Rainbow trout: LC50 = 0.8-1.6 mg/L; 96 Hr.; 13°C
Fish : Bluegill/Sunfish: LC50 = 0.7-0.8 mg/L; 96 Hr.; 18°C

Persistence and degradability : no information available

Bioaccumulative potential : no information available

Mobility in soil : no information available
**SECTION 13: Disposal considerations (non-mandatory)**

- **Waste treatment methods**: waste number P105
- **Waste disposal recommendations**: non-hazardous waste

**SECTION 14: Transport information (non-mandatory)**

- **UN Number**: UN1687
- **UN Proper shipping name**: Sodium Azide
- **Transport hazard class**: Packing group III
- **Proper shipping name**: RSID™ Extraction Buffer
- **Hazard labels**: None
- **DOT Hazard Class**: 6.1
- **Environmental hazards**: no information available

**SECTION 15: Regulatory information (non-mandatory)**

Regulatory information on aqueous mixture
- **National information**: no information available
- **Regional information**: no information available

**SECTION 16: Other information**

- **SDS Creation date**: June 04 2015
- **Revision date**: June 06, 2015
SECTION 1: Product and company identification

Product Identifier

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SECTION 7: Handling and storage

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Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water

Conditions for safe storage, including any incompatibilities
Technical measures: No special measures
Storage conditions: 2-8°C storage is recommended. Keep container closed when not in use

Incompatible products: None
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SECTION 8: Exposure controls / Personal protection

Control Parameters
Sodium azide CAS 26628-22-8 : ACGIH Threshold limit value 0.29 mg/m³

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Personal protective equipment : Protective eyewear, gloves

Hand protection : chemically resistant gloves
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Persistence and degradability : no information available

Bioaccumulative potential : no information available

Mobility in soil : no information available
### SECTION 13: Disposal considerations (non-mandatory)

- **Waste treatment methods**: waste number P105
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- **UN Proper shipping name**: Sodium Azide
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- **Environmental hazards**: no information available

### SECTION 15: Regulatory information (non-mandatory)

Regulatory information on aqueous mixture

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### SECTION 16: Other information

- **SDS Creation date**: June 04 2015
- **Revision date**: June 06, 2015