RSID™-Saliva Laboratory Kit
Safety Data Sheet R-0100
according to 29 CFR 1910.1200 Hazard Communication
Date of issue: 06 15 2015 Supersedes 01 2014

SECTION 1: Product and company identification

Product Identifier

Product Form: Substance
Name: RSID™-Saliva 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.
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.; 13ºC
- Fish : Bluegill/Sunfish: LC50 = 0.7-0.8 mg/L; 96 Hr.; 18 ºC

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
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Other hazards : no additional information available

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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

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