

## SECTION 1: Product and company identification

### Product Identifier

Product Form	: Substance
Name	: RSID™-Universal 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/m<sup>3</sup>

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/cm<sup>3</sup>

Solubility : very soluble

Log Pow : no data available

log Kow : no data available

Viscosity : no data available

Explosive properties : no data available

Molecular formula : N<sub>3</sub>Na

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/m <sup>3</sup> ;
Inhalation, rat	: LC50 = 37 mg/m <sup>3</sup> ;
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™ Universal 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

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