

# MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

1.1 Product Name: DVVtest® 10, DVVtest® 25

**1.2 Product REF:** 810, 825

**1.3 Configuration:** 810 – 10 vials x 2.0 mL per vial set

825 - 10 vials x 5.0 mL per vial set

**1.4 Use of Product:** For In Vitro Diagnostic Use

**1.5 Company** Manufacturer: Sekisui Diagnostics, LLC

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Stamford, CT 06902 USA Tel: (203) 602 7777 Fax: (203) 602 2221 Email: linus@amdiag.com Distributor EU: American Diagnostica GmbH

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# 2. HAZARDS IDENTIFICATION

**2.1 Classification:** Toxic, Dangerous

2.2 Potential Health and Environmental Effects

Skin Exposure: May be fatal if absorbed through skin. May cause skin irritation.

Eye Exposure: May damage the eye
Inhalation Exposure: May be fatal if inhaled
Ingestion: Very harmful if swallowed

Environmental Exposure: Might cause adverse effects to the environment.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Reagent/Component	Chemical Name	CAS No.	EINECS No.	Concentration, w/v, %
DVVtest	Russell's Viper Venom	NA	NA	< 0.01%
	Phospholipids	NA	NA	NA
	HEPES	7365-45-9	230-907-9	< 1.0%
	Calcium Chloride	10043-52-4	233-140-8	< 1.0%
	Hexadimethrine Bromide	28728-55-4	NA	< 0.1%
	Butylated Hydroxytoluene	128-37-0	204-881-4	NA
	D-Trehalose Dihydrate	6138-23-4	202-739-6	< 1.0%
	D-Mannitol	69-65-8	200-711-8	< 1.0%
	Sodium Azide	26628-22-8	247-852-1	< 0.05%

NA - Not Available



### 4. FIRST AID MEASURES

Skin Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove

contaminated clothing. Seek medical attention if adverse symptoms appear.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure

adequate flushing by separating the eyelids with fingers. Seek medical attention if adverse

symptoms appear.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

administer oxygen and seek medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Seek medical attention if

adverse symptoms appear.

#### 5. FIRE FIGHTING MEASURES

Flammability: Solutions are non-flammable. Boxing and instruction papers are flammable.

Suitable Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions, such as carbon dioxide, dry chemical

powder, foam or water spray.

Unsuitable Extinguishing Media: None known.

Equipment for fire fighting: Wear self-contained breathing apparatus and protective clothing appropriate for fighting a fire involving

chemical materials to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. In case of skin

contact, flush with copious amounts of water and remove contaminated clothing.

Environmental Precautions: Do not let the product enter the drainage system.

Methods For Cleaning Up: Soak up with inert absorbent material, place in a bag and hold for waste disposal. Wash spill site

after material pickup is complete.

### 7. HANDLING AND STORAGE

7.1 Handling

Handling Procedure: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide

adequate ventilation in all work areas.

Hygienic Practice: Wash hands with soap and water following use.

7.2 Storage

Container: Keep container tightly closed and labeled with the name of the product.

Recommended Temperature: 2°-8°C.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Exposure Limit Values

TWA: 10 mg/m³ for Butylated Hydroxytoluene per OSHA TLV/TWA: 2 mg/m³ for Butylated Hydroxytoluene per ACGIH



TLV/TWA: 0.1 mg/m³ for Sodium Azide TLV/STEL: 0.3 mg/m³ for Sodium Azide

TLV/Ceiling: 0.29 mg/m³ for Sodium Azide, 0.11 ppm for Hydrazoic acid vapor per ACGIH EU IOELV: 0.1 mg/m³ (TWA) for Sodium Azide, 0.3 mg/m³ (STEL) for Sodium Azide

### 8.2 Personal Protection

Respiratory Protection: Respirator protection is not required. Where protection is desired, use type N95 (US) or type P1

(EN 143) dust masks or for higher level protection, use NIOSH (USA) or CEN (EU) approved

respirators and filters.

Eye Protection: Chemical safety goggles.

Hand Protection: Compatible chemical resistant gloves. Use proper glove removal technique to avoid skin contact.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices.

Skin Protection: Compatible chemical resistant gloves and other protective clothing as required to prevent skin

contact.

General Hygiene Practices: Wash promptly if skin comes into contact with product. Wash thoroughly after handling. Remove

any clothing that comes into contact with the product. Do not smoke or eat in the work

environment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	DVVtest		
Appearance	white power		
Odor	None		
pH	NA		
Freezing Point	NA		
Vapor Pressure	NA		
Specific Gravity	NA		
Solubility	water soluble		
Evaporation Rate	NA		
Viscosity	NA		
Surface Tension	NA		
Boiling Point	NA		
Melting Point	NA		
Flash Point	NA		
Lower Explosive Limit	NA		
Upper Explosive Limit	NA		
Flammability	NA		
Autoignition Temp.	NA		

NA = not available



10. STABILITY AND REACTIVITY

**10.1 Stability:** The product is stable until the expiration date stated on its label when properly stored at 2°-8°C.

**10.2 Conditions To Avoid:** Keep away from heat.

**10.3 Materials To Avoid:** Strong acids, strong reducing agents, strong oxidizing reagents.

10.4 Hazardous Decomposition

**Products:** 

Hazardous decomposition products due to combustion may include carbon monoxide, carbon

dioxide, and nitrogen oxides.

Warning: Sodium Azide may form explosive compounds, copper azide or lead azide, when in

contact with laboratory plumbing.

### 11. TOXICOLOGICAL INFORMATION

# 11.1 Acute Toxicity

Reagent/					
Component	Chemical Name	Oral LD <sub>50</sub>	Inhalation LC <sub>50</sub>	Dermal LD <sub>50</sub>	Intravenous LD <sub>50</sub>
DVVtest	Russell's Viper Venom	No Data Available	No Data Available	No Data Available	mouse, 0.035 mg/kg
	Phospholipids	No Data Available	No Data Available	No Data Available	No Data Available
	Calcium Chloride	rat, 1,000 mg/kg	No Data Available	No Data Available	No Data Available
	Hexadimethrine Bromide	rat, >1,000 mg/kg	No Data Available	No Data Available	No Data Available
	Butylated Hydroxytoluene	rat, 890 mg/kg	No Data Available	No Data Available	No Data Available
	HEPES	No Data Available	No Data Available	No Data Available	No Data Available
	D-Trehalose Dihydrate	No Data Available	No Data Available	No Data Available	No Data Available
	D-Mannitol	rat, 13,500 mg/kg	No Data Availabale	No Data Available	No Data Available
	Sodium Azide	No Data Available	rat, 37 mg/m <sup>3</sup>	rabbit, 20 mg/kg	No Data Available

#### 11.2 Irritation

Skin: Skin irritation in rabbit (due to Butylated Hydroxytoluene)

Eye: Severe eye irritation in rat (due to Calcium Chloride)

Inhalation: No Data Available

11.3 Sensitization

Skin: Prolonged exposure may cause an allergic reaction.

Inhalation: No Data Available

### 11.4 Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

# 11.4 Mutagenicity

No Data Available

# 11.4 Teratogenicity

No Data Available

For the other components of this product, the health effects noted above are based on the extrapolation of data on the pure product ingredients. To the best of our knowledge, no health effects have been identified for the product mixture under normal conditions of use, although the health effects of the product have not been thoroughly investigated.



#### 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity:

Toxicity to fish (Calcium Chloride) LC50, Lepomis macrochirus – 10,650 mg/L, 96 hours

Toxicity to fish (Butylated Hydroxytoluene) LC50, Oryzias latipes – 5.3 mg/L, 48 hours

Toxicity to daphnia (Calcium Chloride) EC50, Daphnia magna (water flea) – 52 mg/L, 48 hours Toxicity to daphnia (Sodium Azide) EC50, Daphnia pulex (water flea) – 4.2 mg/L, 48 hours EC50, Daphnia pulex (water flea) – 1.44 mg/L, 48 hours

**12.2 Mobility:**No Data Available

12.3 Persistence and degradability Aerobic, 86% readily biodegradable

degradability:

12.4 Bioaccumulative potential: No Data Available
12.5 PBT assessment: No Data Available
12.6 Other adverse effects: No Data Available

### 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state and local environmental regulations and laws.

### 14. TRANSPORT INFORMATION

DOT (US): Proper Name For Shipping: Sodium Azide

UN Number: 1687
Hazard Class: 6.1
Reportable Quantity: 1000 lbs
Packing Group: II
Marine Pollutant: No
Poison Inhalation Hazard: No

IMDG: UN Number: 3077

Class: 9

Packing Group III

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxytoulene)

Marine Pollutant

IATA:/ICAO UN Number: 3077

Class: 9

Packing Group III

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Butylated Hydroxytoulene)



#### 15. REGULATORY INFORMATION

This product is classified and labeled in accordance with Directives 1999/45/EC and 67/548/EEC. The health hazard classification has been determined based upon the composition and hazard data of each ingredient. Physical and health hazard information on the reagent mixture has not been determined. Any physical and health hazard information noted is based on a) evaluation of data of the pure ingredient and b) the concentration of each ingredient.

Hazard Classification

EC Symbol: T Indication of Danger: Toxic

Risk Code: R21/22, R28, R32, R50/53

Safety Code: S24/25, S26, S37/39, S46, S29/56

Hazard Code: H300, H302, H313, H315, H319, H400, H410,

OSHA Hazards: Sodium Azide is highly toxic by ingestion. Target organs are primarily the central nervous system

and the brain.

SARA 302 Components: Sodium Azide in this product, however it's level does not exceed the threshold reporting levels

subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: Sodium Azide in this product, however it's level does not exceed the threshold reporting levels by

SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard (Butylated Hydroxytoluene).

Chronic Health Hazard (Russell's Viper Venom)

California Prop 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth

defects or any other reproductive harm.

# 16. OTHER INFORMATION

The information supplied in this Material Safety Data Sheet represents the data and best information available on the date of preparation. It is provided to allow for the proper and safe use, storage, transport and disposal of the product. It is not to be considered as a warranty, guarantee or specification of the product quality. It is related to the materials specifically indicated and does not apply if these are used in combination with other materials or during processes not indicated in the text of this safety data sheet.

Sekisui Diagnostics, LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.