

SAFETY DATA SHEET

1. Identification

| | | |
|---|--|--|
| Product identifier | DVVtest® 10, DVVtest® 25 | |
| Other means of identification | | |
| Product code | 810; 825 | |
| Recommended use | DVVtest® is a dilute Russell's Viper Venom Time (dRVVT) test intended for the determination of Lupus Anticoagulants (LA) in patient plasma. | |
| Recommended restrictions | Use in accordance with supplier's recommendations. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Corporate Headquarters | BioMedica Diagnostics Inc. 94 Wentworth Road, PO Box 1030 Windsor, Nova Scotia CANADA B0N 2T0 | |
| 7 cbfUWidYfgcb | Corporate Phone: 1-902-798-5105 Corporate Fax: 1-902-798-1025 Email: info@biomedicadiagnostics.com Website: www.biomedicadiagnostics.com | |
| 9a Yf[YbWniHY'Yd\ cbY Bi a VYfg | US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924 International +1-813-248-0585 Australia 1-300-954-583 Brazil 0-800-591-6042 China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731 | |
| 7 cbfUWibi a VYf | MIS9591327 | |

2. Hazard(s) identification

| | | |
|------------------------------|--|-------------|
| Physical hazards | Not classified. | |
| Health hazards | Serious eye damage/eye irritation | Category 2A |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 3 |
| | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | | |
|--|--|--|
| Signal word | Warning | |
| Hazard statement | Causes serious eye irritation. Harmful to aquatic life with long lasting effects. | |
| Precautionary statement | | |
| Prevention | Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. | |
| Response | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. | |
| Storage | Not assigned. | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| Hazard(s) not otherwise classified (HNOC) | Contact with acids liberates very toxic gas. | |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|-----------------------------|------------|---------|
| Calcium chloride, dihydrate | 10035-04-8 | 15 - 20 |

| | | |
|----------------------------|------------|---------|
| Vinylpyrrolidinone polymer | 9003-39-8 | 1 - 5 |
| Sodium azide | 26628-22-8 | 0.1 - 1 |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

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| Inhalation | Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist. |
| Skin contact | Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists. |
| Ingestion | Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get immediate medical attention. |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Ingestion may cause irritation and malaise. Symptoms include itching, burning, redness and tearing. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Fire will generate toxic and irritating gases. When heated to decomposition, may produce hydrazoic acid fumes. |
| Special protective equipment and precautions for firefighters | Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Will burn if involved in a fire. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Avoid dust formation. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| Methods and materials for containment and cleaning up | Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13. |
| Environmental precautions | Do not allow to enter drains, sewers or watercourses. This mixture contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. Follow proper disposal procedures. |

7. Handling and storage

| | |
|---|--|
| Precautions for safe handling | Avoid inhalation of dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Wash thoroughly after handling. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials. |

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------------------|---------|------------------------|
| Sodium azide (CAS 26628-22-8) | Ceiling | 0.29 mg/m ³ |
| | | 0.11 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|-------------------------------|---------|-----------------------|
| Sodium azide (CAS 26628-22-8) | Ceiling | 0.3 mg/m ³ |
| | | 0.1 ppm |

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Follow standard monitoring procedures.

US - California OELs: Skin designation

Sodium azide (CAS 26628-22-8) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

Sodium azide (CAS 26628-22-8) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Sodium azide (CAS 26628-22-8) Can be absorbed through the skin.

Appropriate engineering controls Observe occupational exposure limits and minimize the risk of inhalation of dust and fumes.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety glasses or goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Remove contaminated clothing promptly.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use a suitable NIOSH approved respirator with an appropriate particulate filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance White powder.

Physical state Solid.

Form Powder.

Color White.

Odor None.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not available.

| | |
|---|----------------|
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Soluble. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |

10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Contact with acids liberates toxic gas. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | Strong oxidizing agents. Strong acids. Strong reducing agents. |
| Hazardous decomposition products | Thermal decomposition can lead to release of irritating gases and vapors, including hydrazoic acid vapor. Carbon oxides. Nitrogen oxides. |

11. Toxicological information

Information on likely routes of exposure

| | |
|--------------|---------------------------------------|
| Inhalation | Dust may irritate respiratory system. |
| Skin contact | Dust may irritate skin. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | May cause discomfort if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics Ingestion may cause irritation and malaise. Symptoms include itching, burning, redness and tearing.

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|--|---------|--------------|
| Calcium chloride, dihydrate (CAS 10035-04-8) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | > 1000 mg/kg |
| Sodium azide (CAS 26628-22-8) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 20 mg/kg |
| <i>Oral</i> | | |
| LD50 | Rat | 27 mg/kg |

Skin corrosion/irritation Dust may irritate skin.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

| | |
|---------------------------|-----------------|
| Respiratory sensitization | Not classified. |
| Skin sensitization | Not classified. |

Germ cell mutagenicity Not classified.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Vinylpyrrolidinone polymer (CAS 9003-39-8) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

| | |
|---|---|
| Reproductive toxicity | Not classified. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |
| Further information | No other specific acute or chronic health impact noted. |

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Components | Species | Test Results | |
|-------------------------------|---------|--------------------------------|---------------------|
| Sodium azide (CAS 26628-22-8) | | | |
| Aquatic | | | |
| Algae | EC50 | Pseudokirchnerella subcapitata | 0.35 mg/l, 96 hours |
| Fish | LC50 | Fish | 5.7 mg/l, 96 hours |

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Mobility in soil No data available.

Mobility in general The product is soluble in water.

Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This preparation contains a small amount of sodium azide which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. If preparation enters drain, flush with a large volume of water to prevent azide build-up.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company and/or appropriate testing.

US RCRA Hazardous Waste P List: Reference

Sodium azide (CAS 26628-22-8) P105

Waste from residues / unused products Dispose in accordance with all applicable regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

General information The transportation information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped. It may be eligible for Excepted Quantity exemption, dependant on quantity of units within the outer package.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium azide (CAS 26628-22-8) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------|------------|------------------------------|--------------------------------------|---|---|
| Sodium azide | 26628-22-8 | 1000 | 500 | | |

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)
 Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Sodium azide (CAS 26628-22-8)

US. New Jersey Worker and Community Right-to-Know Act

Sodium azide (CAS 26628-22-8)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium azide (CAS 26628-22-8)

US. Rhode Island RTK

Sodium azide (CAS 26628-22-8)

US. California Proposition 65

Not Listed.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 01-December-2017

Revision date 14-July-2017

Version # 02

NFPA ratings



List of abbreviations

LD50: Lethal Dose, 50%.

References

HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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