

Safety Data Sheet (SDS)

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|--|---|------------------------|--|
| Revision Number: 1.0 | | Last updated: May,2025 | |
| 1. Product and Company Identification | | | |
| Product Name: | SensoLyte® 520 TMRSS2 Activity Assay Kit *Fluorimetric* | | |
| Manufacturer/Supplier: | AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com | | |
| Catalog Number | 72275 | | |
| Unit Size | 1 kit | | |
| 2. Hazards Identification | | | |
| <u>Emergency Overview:</u> | | | |
| GHS Hazard Classification: | | | |
| GHS Physical Hazards | | | |
| Component A, B, E: Flammable liquid (Category 4) Component C: N/A Component D: Skin irritation (Category 2), Eye irritation (Category 2A), Acute toxicity (Oral) (Category 4) | | | |
| GHS Health and Environmental Hazards | | | |
| Component A, B, E: Irritant to eyes and skin Component C: N/A Component D: Irritants to eyes and skin, acute toxicity, oral and by inhalation | | | |
| GHS Signal Words: | | | |
| Component A, B, D, E: Warning Component C: N/A | | | |
| GHS Hazard Statements: | | | |
| Component A, B, E: H227 Combustible liquid Component C: N/A Component D: H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation | | | |
| GHS Precautionary Statements: | | | |
| Component A, B, E: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P280 Wear protective gloves/ eye protection/ face protection. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol- | | | |

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resistant form to extinguish.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container to an approved waste disposal plant.

Component C: N/A

Component D: P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification:

| Component A, B, E: | Component C: | Component D: |
|----------------------------|----------------------------|----------------------------|
| <i>Health hazard: 0</i> | <i>Health hazard: 0</i> | <i>Health hazard: 2</i> |
| <i>Flammability: 2</i> | <i>Flammability: 1</i> | <i>Flammability: 1</i> |
| <i>Physical hazards: 0</i> | <i>Physical hazards: 0</i> | <i>Physical hazards: 0</i> |

NFPA Rating:

| Component A, B, E: | Component C: | Component D: |
|-----------------------------|-----------------------------|-----------------------------|
| <i>Health hazard: 0</i> | <i>Health hazard: 0</i> | <i>Health hazard: 2</i> |
| <i>Fire: 2</i> | <i>Fire: 1</i> | <i>Fire: 1</i> |
| <i>Reactivity hazard: 0</i> | <i>Reactivity hazard: 0</i> | <i>Reactivity hazard: 0</i> |

3. Composition / Information on Ingredients

Ingredients/Components:

| <i>Chemical Name:</i> | <i>Description</i> | <i>CAS Number:</i> |
|-----------------------|--------------------|------------------------|
| Component A | Contains DMSO | 67-68-5 |
| Component B | Contains DMSO | 67-68-5 |
| Component C | Proprietary | N/A |
| Component D | Proprietary | N/A |
| Component E | Contains DMSO | 59721-29-8 and 67-68-5 |

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Component A, B, E

Inhalation: Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Ingestion: Do NOT induce vomiting. Get medical attention.

Skin: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

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Component C

- Inhalation:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
- Skin:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- Eyes:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

Component D

- Inhalation:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
- Ingestion:** Do NOT induce vomiting. Get medical attention if symptoms occur.
- Skin:** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
- Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

5. Fire Fighting Measures

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| Extinguishing media: | <p>Component A, B, E: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.</p> <p>Component C: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Component D: Not applicable</p> |
| Special firefighting procedures: | <p>Component A, B, E: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.</p> <p>Component C: In combustion, may emit toxic fumes. Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.</p> <p>Component D: Not applicable</p> |
| Unusual fire and explosions hazards: | <p>Component A, B, E: Combustible material. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors (Carbon monoxide (CO), Carbon dioxide (CO₂), Sulfur oxides, Sulfides, Formaldehyde).</p> <p>Component C: Not applicable</p> <p>Component D: Not applicable</p> |

6. Accidental Release Measures

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| Containment and spill response | <p>Component A, B, E: Use personal protective equipment as required. Do not breathe vapors, aerosols. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.</p> <p>Component C: Do not take action without suitable protective clothing. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.</p> |
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|---|--|
| | Component D: Not applicable |
| <i>PPE</i> | Use personal protective equipment |
| <u>7. Handling and Storage</u> | |
| Component A, B, E: <i>Handling:</i> Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. <i>Storage:</i> Store in a tightly closed container away from moisture, heat, and flame. Store under inert gas. | |
| Component C: <i>Handling:</i> Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. <i>Storage:</i> Store in cool, well-ventilated area. Keep away from direct sunlight. Keep the container tightly sealed until ready for use. | |
| Component D: Not applicable. | |
| <u>8. Exposure Controls /Personal Protection</u> | |
| <i>Engineering controls</i> | Component A, B, E: Change contaminated clothing. Wash hands after working with substance. Component C: Use in a fume hood where applicable. Ensure laboratory is equipped with a safety shower and eye wash station. Component D: Not applicable. |
| <i>PPE</i> | Component A, B, E: <i>Respiratory System:</i> Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. <i>Skin and Body:</i> Wear appropriate protective gloves and clothing to prevent skin exposure. <i>Eyes:</i> Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses. Component C: <i>Respiratory protection:</i> If risk assessment indicates necessary, use a suitable respirator. <i>Skin and body:</i> Use appropriate chemical resistant gloves. Gloves should be inspected before use. Wash and dry hands thoroughly after handling. <i>Eyes:</i> Use appropriate safety glasses. Component D: Not applicable. |
| <u>9. Physical and Chemical Properties</u> | |
| <i>Physical State</i> | Components are liquids |
| <i>Odor</i> | Not determined |
| <i>Solubility in Water</i> | Soluble |
| <i>Specific Gravity</i> | Not determined |
| <i>pH</i> | Component A, B, C, E: no data available |

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| | Component D: pH 8 |
| <i>Boiling Point</i> | Not determined |
| <i>Melting Point</i> | Not determined |
| <i>Flash Point</i> | Not determined |
| <i>Vapor Pressure:</i> | Not determined |
| <i>Vapor Density:</i> | Not determined |
| <u>10.Stability and Reactivity</u> | |
| <i>Thermal Decomposition</i> | Not applicable |
| <i>Dangerous Products of Decomposition</i> | Not Applicable |
| <i>Dangerous Reactions</i> | Not Applicable |
| <u>11.Toxicological Information</u> | |
| <i>RTECS Number</i> | Component A: PV6210000 Component B: PV6210000 Component C: N/A Component D: N/A Component E: CY1571620 |
| <i>Toxicity</i> | For Component A, B, E: contain Dimethyl sulfoxide (DMSO). LD50 Oral - Rat - male and female - 28,300 mg/kg LC50 Inhalation - Rat - male and female - 4 h - > 5.33 mg/l - dust/mist LD50 Dermal - Rat - male and female - 40,000 mg/kg Component C: N/A LD50 Oral - Rat - 12,600 mg/kg LD50 Dermal - Rabbit - > 10,000 mg/kg LC50 Inhalation :No data available Component D: N/A |
| <i>Health Hazards</i> | No data available |
| <i>Potential Hazards</i> | <i>Inhalation:</i> May be fatal if inhaled. May cause respiratory tract irritation. <i>Skin:</i> May cause skin irritation. May be fatal if absorbed through skin. <i>Eyes:</i> May cause eye irritation. <i>Ingestion:</i> Harmful if swallowed. <i>Aggravated Medical Condition:</i> Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body. |
| <i>Carcinogenicity:</i> | No component of this product present at levels great than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by IARC, NTP, and OSHA |

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| <i>OSHA Permissible Exposure Limit (PEL) Data</i> | No data available |
| <i>ACGIH Threshold Limit Values (TLV)</i> | No data available |
| <u>12. Ecological Information</u> | |
| For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (<i>Component A, B, and E contain DMSO</i>) | |
| Toxicity | |
| Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 25,000 mg/l - 96 h (OECD Test Guideline 203) | |
| Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 24,600 mg/l - 48 h (OECD Test Guideline 202) | |
| Toxicity to algae static test ErC50 - <i>Pseudokirchneriella subcapitata</i> (green algae) - 17,000 mg/l - 72 h (OECD Test Guideline 201) | |
| Toxicity to bacteria EC50 - activated sludge - 10 - 100 mg/l - 30 min (ISO 8192) | |
| Persistence and degradability | |
| aerobic - Exposure time 28 d Result: 31 % - Not readily biodegradable. (OECD Test Guideline 301D) | |
| Bioaccumulative potential | |
| No data available | |
| Mobility in soil | |
| No data available | |
| PBT and vPvB assessment | |
| No data available | |
| Other adverse effects | |
| No data available | |
| For Component C and D: | |
| Toxicity | |
| No data available | |
| Persistence and degradability | |
| No data available | |
| Bioaccumulative potential | |
| No data available | |
| Mobility in soil | |
| No data available | |
| PBT and vPvB assessment | |
| No data available | |
| Other adverse effects | |
| No data available | |

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13. Disposal Considerations

For Dimethyl sulfoxide (DMSO) CAS-No. 67-68-5 (Components A, B and E):

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Component C: Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

Contaminated packaging

Dispose of unused product.

14. Transport Information: IATA Exempted quantities labeling

| | |
|-----------------------------------|-----|
| <i>UN Number</i> | N/A |
| <i>Hazard Class</i> | N/A |
| <i>Identification Number</i> | N/A |
| <i>Packing Group</i> | N/A |
| <i>Proper Shipping Name (DOT)</i> | N/A |

15. Regulatory information

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|---|---|
| <i>California Proposition 65:</i> | N/A |
| US TSCA (Toxic Substance Control Act): | Component A, B, E: Listed Component C, D: Not Listed |
| <i>US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):</i> | Component A, B and E: This material does not contain any components with a CERCLA RQ. Component C and D: N/A |

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| US SARA Title III | Component A, B, E <i>SARA 302 components:</i> This material does not contain any components with a section 302 EHS TPQ. <i>SARA 313 components:</i> This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. <i>SARA 311/312 Hazards:</i> Fire Hazard, Chronic Health Hazard Component C <i>SARA 302 components:</i> N/A <i>SARA 313 components:</i> N/A <i>SARA 311/312 Hazards:</i> N/A Component D <i>SARA 302 components:</i> This material does not contain any components with a section 302 EHS TPQ. <i>SARA 313 components:</i> This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. <i>SARA 311/312 Hazards:</i> Acute Health Hazard | | |
| US Clean Air Act: | Component A, B, C, D, E, <i>Listed under Hazardous Air Pollutants:</i> Not listed <i>Listed under Class 1 Ozone Depletors:</i> Not listed <i>Listed under Class 2 Ozone Depletors:</i> Not listed | | |
| US Clean Water Act: | Components A, B, C, D, E, <i>Listed under “Hazardous Substances”:</i> Not listed <i>Listed under “Priority Pollutants”:</i> Not listed <i>Listed under “Toxic Pollutants”:</i> Not listed | | |
| | | | |
| US States: Right-to-Know: Listed in the following States: | | | |
| Component A, B, E: | Component C: | Component D: | |
| Pennsylvania Revision Date 2007-03-01 | N/A | N/A | |
| New Jersey Revision Date 2007-03-01 | N/A | N/A | |
| Massachusetts (Not Listed) | N/A | N/A | |

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| | Component A, B, E | Component C | Component D |
|--|--------------------------|--------------------|--------------------|
| EC EINICS | 200-664-3 | 453/2010 | N/A |
| <i>EC Risk statements</i> | 36/37/38 | N/A | N/A |
| <i>WGK</i> | 1 | N/A | N/A |
| <i>Canada-DSL/NDL</i> | Listed | N/A | Not listed |
| <i>Canada- WHMIS classification</i> | D2B | N/A | N/A |
| <i>Canada- Canadian Ingredient Disclosure List</i> | Listed | N/A | Not Listed |

16. Other Information

It is not intended for food, drug, and household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.

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