### 1 Identification

- **Product identifier**
  - **Trade name:** AST Reagent 1
  - **Article number:** Envoy Vital Diagnostics article number: 55250
  - **Synonyms:** Envoy Vital Diagnostics Reagent(s): Envoy 500 AST R1
- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture**
    - Reagent for IN VITRO diagnostic
    - Product included in kit(s) Envoy Vital Diagnostics:
      - Kit composed of two reagents: 55250
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - Manufacturer: ELITech Clinical Systems SAS
    - Zone Industrielle
    - 61500 Sées • France
    - Tel: +33 (0)2 33 81 21 00
    - Fax: +33 (0)2 33 28 77 51
    - www.elitechgroup.com
    - MSDS.ECS-SAS@elitechgroup.com
  - **US Supplier:** Vital Diagnostics Inc.
    - 27 Wellington Road
    - Lincoln, Rhode Island 02865 USA
    - (401) 642-8400
    - (855) 354-8324
    - www.vitaldiagnostics.com
  - **Information department:** Product safety department
  - **Emergency telephone number:** Contact your distributor or poison control center in your country.

### 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
  - **Signal word**
  - **Hazard statements**

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
  - **Description:** Mixture of substances. Aqueous solution.
  - **Dangerous components:** No dangerous component in reportable quantity.

### 4 First-aid measures

- **Description of first aid measures**
  - **General information:** Show this safety data sheet to the doctor in attendance.
  - **After inhalation:**
    - Move out of dangerous area.
    - Supply fresh air.
    - If required, provide artificial respiration.
    - If symptoms appear, seek medical advice.
  - **After skin contact:**
    - Rinse with water.
    - If symptoms appear, seek medical advice.
  - **After eye contact:**
    - Protect unharmed eye.
    - Remove contact lenses, if present and easy to do.
    - Rinse opened eye for several minutes under running water. If symptoms appear, seek medical advice.
  - **After swallowing:**
    - Never give anything by mouth to an unconscious person.
    - Rinse out mouth.
    - Seek advice from a doctor or a poison control center.
38.0.32

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
  - Protective equipment: As in any fire, wear a respiratory protective device, and full protective gear.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective clothing.
  - Ensure adequate ventilation.
  - Avoid physical contact with material.
  - Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
  - Clean the affected area carefully.
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Ensure good ventilation/exhaustion at the workplace.
    - Open and handle receptacle with care.
    - Avoid physical contact with material.
    - Observe the warnings on the label.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Protect the product from light. Avoid exposure to heat.
  - Recommended storage temperature: 2-8 °C
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace:
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - Information on components:
      - 26628-22-8 sodium azide (< 0.1%) REL (USA) Ceiling limit value: 0.3** mg/m³, 0.1* ppm
        - as HN₃; **as NaN₃; Skin
      - TLV (USA) Ceiling limit value: 0.29** mg/m³, 0.11* ppm
        - as HN₃ vapor; **as NaN₃
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      - The usual precautionary measures for handling chemicals should be followed.
      - Wash hands before breaks and at the end of work.
      - The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
    - Breathing equipment:
      - Under normal conditions, the use of these products should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
      - Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Protection of hands:

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation of the glove material can be given. Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Goggles recommended during refilling. Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body protection:
Protective work clothing

---

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Liquid
    - Color: Colorless
    - Odor: Odorless
  - **pH-value at 25 °C (77 °F):** 10.3
  - **Change in condition**
    - Melting point/Melting range: Not applicable
    - Boiling point/Boiling range: Undetermined.
    - Solidification point: Not determined
  - **Flash point:** Not applicable
  - **Flammability (solid, gaseous):** Not applicable
  - **Ignition temperature:** Not determined
  - **Decomposition temperature:** Not determined
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Vapor pressure:** Not determined
  - **Density at 20 °C (68 °F):** 0.999 g/cm³ (8.337 lbs/gal)
  - **Vapour density** Not determined
  - **Evaporation rate** Not determined
  - **Solubility in / Miscibility with Water:** Miscible
  - **Partition coefficient (n-octanol/water):** Not determined
  - **Viscosity:**
    - Dynamic: Not determined
    - Other information: No further relevant information available.

---

10 Stability and reactivity

- **Reactivity** See § Possibility of hazardous reactions.
- **Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
  - Sodium azide, contains in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.
  - **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
  - Strong oxidizing agents.
  - Acids.
- **Hazardous decomposition products:**
  - Small quantities of dangerous decomposition products may be formed.
  - Carbon oxides (COx)
  - Nitrogen oxides (NOx)
11 Toxicological information

- Additional information:
  Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

Information on toxicological effects

- Acute toxicity:
  Information on components:

26628-22-8 sodium azide

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>27 mg/kg (mouse)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>20 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>37 mg/m3 (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - on the skin: May cause irritating effect.
  - on the eye: May cause irritating effect.
  - Inhalation: May cause irritating effect. May be harmful by inhalation.
  - Ingestion: May be harmful if swallowed.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  Ingestion of large amount of sodium azide may cause nausea, vomiting and in certain circumstances respiratory difficulties, high pulse rate and/or hypersensitivity.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer) None of the ingredient is listed.
  - NTP (National Toxicology Program) None of the ingredient is listed.
  - CMR effects
    - Carcinogenic effects: Data not available
    - Mutagenicity: Data not available
    - Reproductive Effects: Data not available
    - Effects on development: Data not available

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    Information on components:

26628-22-8 sodium azide

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/48h</td>
<td>4.2 mg/l (Daphnia)</td>
</tr>
<tr>
<td>LC50/96h</td>
<td>0.68 mg/l (Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

- Persistence and degradability Data not available
- Behavior in environmental systems:
  - Bioaccumulative potential Data not available
  - Mobility in soil Data not available
- Additional ecological information:
  - General notes:
    At present there are no ecotoxicological assessments.
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Disposal procedures have to be respected, see Section 13.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Disposal must be made according to official regulations.
  - Uncleaned packagings:
    - Recommendation: Disposal must be made according to official regulations.
    - Recommended cleansing agent:
      Sodium azide, contained in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.
  - Primary packaging: Plastic vial (composed of polyethylene high density).

14 Transport information

- UN-Number: Not applicable
- DOT, ADR, ADN, IMDG, IATA: -
### 15 Regulatory information

- **SARA**
- **TSCA (Toxic Substances Control Act):** This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.
- **Proposition 65**
  - **Chemicals known to cause cancer:** None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.
- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)** None of the ingredient is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
  - 26628-22-8 sodium azide A4
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** None of the ingredient is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** None of the ingredient is listed.
- **U. S. State Regulations:**
  - **PA-RTK**
    - 26628-22-8 sodium azide
  - **NJ-RTK**
    - 26628-22-8 sodium azide
  - **MA-RTK**
    - 26628-22-8 sodium azide
  - **RI-RTK**
    - 26628-22-8 sodium azide
- **US Federal Regulation**
  - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department
- **Contact:** Product safety department
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NOEC : No Observed Effect Concentration
  - EC50: Effective concentration, 50 percent
  - IC50: Inhibitory concentration, 50 percent.
1 Identification

- **Product identifier**
  - **Trade name:** AST Reagent 2
  - **Article number:** Envoy Vital Diagnostics article number: 55250
  - **Synonyms:** Envoy Vital Diagnostics Reagent(s): Envoy 500 AST R2
- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Application of the substance / the mixture**
  - Reagent for IN VITRO diagnostic
  - Product included in kit(s): Envoy Vital Diagnostics:
    - Kit composed of two reagents: 55250

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    - **Manufacturer:** ELITech Clinical Systems SAS
    - Zone Industrielle
    - 61500 Sées • France
    - Tel: +33 (0)2 33 81 21 00
    - Fax: +33 (0)2 33 28 77 51
    - www.elitechgroup.com
    - MSDS.ECS-SAS@elitechgroup.com
  - **US Supplier:** Vital Diagnostics Inc.
    - 27 Wellington Road
    - Lincoln, Rhode Island 02865 USA
    - (401) 642-8400
    - (855) 354-8324
    - www.vitaldiagnostics.com
  - **Information department:** Product safety department
  - **Emergency telephone number:** Contact your distributor or poison control center in your country.

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    - Eye Irrit. 2 H319 Causes serious eye irritation.

- **Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labeled according to the CLP regulation.
  - **Hazard pictograms**
    - GHS07

- **Signal word** Warning
- **Hazard statements**
  - Causes serious eye irritation.
- **Precautionary statements**
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - 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.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
  - Mixture of substances.
  - Aqueous solution.
- **Dangerous components:**

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-84-8</td>
<td>aspartic acid</td>
<td>10-25%</td>
</tr>
</tbody>
</table>

(Cont'd on page 3)
4 First-aid measures

· Description of first aid measures
  · General information: Show this safety data sheet to the doctor in attendance.
  · After inhalation: Move out of dangerous area.
    Supply fresh air.
    If required, provide artificial respiration.
    If symptoms appear, seek medical advice.
  · After skin contact: Rinse with water.
    If symptoms appear, seek medical advice.
  · After eye contact: Protect unharmed eye.
    Remove contact lenses, if present and easy to do.
    Rinse opened eye for several minutes under running water.
    If symptoms appear, seek medical advice.
  · After swallowing: Never give anything by mouth to an unconscious person.
    Rinse out mouth.
    Seek advice from a doctor or a poison control center.
  · Information for doctor:
    · Most important symptoms and effects, both acute and delayed: Data not available
    · Indication of any immediate medical attention and special treatment needed: Data not available

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents: CO2, extinguishing powder or water spray.
    Fight larger fires with water spray or alcohol resistant foam.
  · Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.
    Carbon oxides (COx)
    Nitrogen oxides (NOx)
  · Advice for firefighters
    · Protective equipment: As in any fire, wear a respiratory protective device, and full protective gear.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  · Wear protective clothing.
  · Ensure adequate ventilation.
  · Avoid physical contact with material.
  · Prevent formation of aerosols.
  · Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
· Methods and material for containment and cleaning up:
  · Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
  · Clean the affected area carefully.
  · Send for recovery or disposal in suitable receptacles.
· Reference to other sections
  · See Section 7 for information on safe handling.
  · See Section 8 for information on personal protection equipment.
  · See Section 13 for disposal information.

7 Handling and storage

· Handling:
  · Precautions for safe handling
    · Ensure good ventilation/exhaustion at the workplace.
    · Open and handle receptacle with care.
    · Avoid physical contact with material.
    · Observe the warnings on the label.
  · Information about protection against explosions and fires: No special measures required.
· Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: Protect the product from light. Avoid exposure to heat.
### 8 Exposure controls/personal protection

- **Recommended storage temperature:** 2-8 °C
- **Specific end use(s):** No further relevant information available.

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - Information on components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>REL (USA) Ceiling limit value</th>
<th>TLV (USA) Ceiling limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>0.3** mg/m³, 0.1* ppm</td>
<td>0.29** mg/m³, 0.11* ppm</td>
</tr>
<tr>
<td></td>
<td>as HN₃; **as NaN₃</td>
<td>as HN₃ vapor; **as NaN₃</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - The usual precautionary measures for handling chemicals should be followed.
      - Wash hands before breaks and at the end of work.
      - The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
  - **Breathing equipment:**
    - Under normal conditions, the use of these products should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
    - Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
  - **Protection of hands:**
    - **Protective gloves**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation process.
      - Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
  - **Material of gloves**
    - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**
    - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:**
    - Goggles recommended during refilling.
  - **Body protection:**
    - **Protective work clothing**

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Liquid
    - **Color:** Colorless
    - **Odor:** Odorless
    - **pH-value at 25 °C (77 °F):** 7.7
  - **Change in condition**
    - **Melting point/Melting range:** Not applicable
    - **Boiling point/Boiling range:** Undetermined.
    - **Solidification point:** Not determined
  - **Flash point:** Not applicable
  - **Flammability:** Not applicable
  - **Ignition temperature:** Not determined
  - **Decomposition temperature:** Not determined
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
10 Stability and reactivity

· Reactivity  See § Possibility of hazardous reactions.
· Chemical stability  Stable under recommended storage conditions.
· Thermal decomposition / conditions to be avoided:  No decomposition if used according to specifications.
· Possibility of hazardous reactions  Sodium azide, contains in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.
· Conditions to avoid  No further relevant information available.
· Incompatible materials:  Strong oxidizing agents, strong acids
Bases.
Strong reducing agents.
· Hazardous decomposition products:  Small quantities of dangerous decomposition products may be formed.
Carbon oxides (COx)
Nitrogen oxides (NOx)
· Additional information:  Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

11 Toxicological information

· Information on toxicological effects
· Acute toxicity:  LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Dermal LD50 intra</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-84-8 aspartic acid</td>
<td>5000 mg/kg (rat)</td>
<td>5000 mg/kg (rabbit)</td>
<td>6 mg/kg (mouse)</td>
</tr>
<tr>
<td>26628-22-8 sodium azide</td>
<td>27 mg/kg (mouse)</td>
<td>20 mg/kg (rabbit)</td>
<td>LC50 37 mg/m3 (rat)</td>
</tr>
</tbody>
</table>

· Primary irritant effect:
  · on the skin:  May cause irritating effect.
  · on the eye:  Causes serious eye irritation.
  · Inhalation:  May cause irritating effect.
  · May be harmful by inhalation.
  · Ingestion:  May be harmful if swallowed.
  · Sensitization:  No sensitizing effects known.
  · Additional toxicological information:  Ingestion of large amount of sodium azide may cause nausea, vomiting and in certain circumstances respiratory difficulties, high pulse rate and/or hypersensitivity.
· Carcinogenic categories
  · IARC (International Agency for Research on Cancer)  None of the ingredient is listed.
  · NTP (National Toxicology Program)  None of the ingredient is listed.
· CMR effects
  · Carcinogenic effects:  Data not available
  · Mutagenicity:  Data not available
  · Reproductive Effects:  Data not available
  · Effects on development:  Data not available
12 Ecological information

- Toxicity
  - Aquatic toxicity:
    Information on components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>EC50/48h</th>
<th>LC50/96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>26628-22-8 sodium azide</td>
<td>4.2 mg/l (Daphnia)</td>
<td>0.68 mg/l (Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

- Persistence and degradability: Data not available
- Behavior in environmental systems:
  - Bioaccumulative potential: Data not available
  - Mobility in soil: Data not available
- Additional ecological information:
  - General notes:
    At present there are no ecotoxicological assessments.
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    Disposal procedures have to be respected, see Section 13.

- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Disposal must be made according to official regulations.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent:
  Sodium azide, contained in the product (<0.1%), can react with copper and lead plumbing to form explosive metal azides. If discharge in the canalisations, rinse with plenty of water.
- Primary packaging: Plastic vial (composed of polyethylene high density).

14 Transport information

- UN-Number: Not applicable
- DOT, ADR, ADN, IMDG, IATA
  - Not applicable
- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA
  - ADR
  - Not applicable
- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class
  - Not applicable
- Packing group
  - DOT, ADR, IMDG, IATA
  - Not applicable
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- UN "Model Regulation": Not applicable.

15 Regulatory information

- SARA

- Section 313 (Specific toxic chemical listings): Not regulated.

- TSCA (Toxic Substances Control Act): This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.
- Proposition 65
  - Chemicals known to cause cancer: None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
  - Chemicals known to cause developmental toxicity: None of the ingredient is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency) None of the ingredient is listed.
Safety Data Sheet
acc. to OSHA HCS

Trade name: AST Reagent 2

TLV (Threshold Limit Value established by ACGIH)

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>26628-22-8 sodium azide</td>
<td>A4</td>
</tr>
</tbody>
</table>

NOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredient is listed.
OSHA-Ca (Occupational Safety & Health Administration) None of the ingredient is listed.

U. S. State Regulations:

<table>
<thead>
<tr>
<th>State</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>26628-22-8 sodium azide</td>
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<tr>
<td>RI</td>
<td>26628-22-8 sodium azide</td>
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</tbody>
</table>

US Federal Regulation
This mixture is a component of an FDA-regulated IN VITRO diagnostic medical device.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Department issuing MSDS: Product safety department
Contact: Product safety department

Abbreviations and acronyms:
SVHC: Substances of Very High Concern
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NOEC: No Observed Effect Concentration
EC50: Effective concentration, 50 percent
IC50: Inhibitory concentration, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3