

21.11.2013

Kit Components

Product code	Description
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55117	ENVOY 500 ISE CALIBRATOR KIT
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Components:

55117	ENVOY 500 LOW ISE CALIBRATOR
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55117	ENVOY 500 HIGH ISE CALIBRATOR
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Printing date 11/21/2013

Reviewed on 11/14/2013

1 Identification

- **Product identifier**
- **Trade name:** ENVOY 500 LOW ISE CALBRATOR
- **Article number:** 55117
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Reagent for IN VITRO diagnostic
- **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** The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** -
- **Hazard pictograms** -
- **Signal word** -
- **Hazard statements** -

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture of substances.
Aqueous solution.
- **Dangerous components:**
Each of the components is present in less than 1% concentration for hazardous components (or 0.1% concentration for potential carcinogens, reproductive toxins, and mutagens).

4 First-aid measures

- **Description of first aid measures**
- **General information:** Show this safety data sheet to the doctor in attendance.
- **After inhalation:**
Supply fresh air.
Move out of dangerous area.
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:**
Do not induce vomiting.
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

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Printing date 11/21/2013

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Trade name: ENVOY 500 LOW ISE CALIBRATOR

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· *Indication of any immediate medical attention and special treatment needed* Data not available

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
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 hazardous vapours/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**
Ensure adequate ventilation
Wear protective clothing.
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.
- **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:**
Keep receptacle tightly sealed.
Protect the product from light. Avoid exposure to heat.
- **Recommended storage temperature:** 2-30 °C
- **Specific end use(s)** Data not 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.
- **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.

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Reviewed on 11/14/2013

Trade name: ENVOY 500 LOW ISE CALIBRATOR

(Contd. of page 2)

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

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.

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:	Fluid
· Color:	Colorless
· Odor:	Odorless

· **pH-value at 20 °C (68 °F):** 8.9

· **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):** 1.004 g/cm³ (8.378 lbs/gal)

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with Water:** Miscible

· **Partition coefficient (n-octanol/water):** Data not available

· **Viscosity:**

· **Dynamic:** Not determined.

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No dangerous reactions known.

· **Chemical stability** Stable under recommended storage conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions if used according to specifications.

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** Strong oxidizing agents, acids.

· **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

· **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:** Data not available

· **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.

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Trade name: ENVOY 500 LOW ISE CALIBRATOR

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- **Ingestion:** May be harmful if swallowed.
- **Sensitization:** Sensitizing effect is possible.
- **Additional toxicological information:** Data not available
- **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**
- **Mutagenicity:** Data not available
- **Reproductive Effects:** Data not available
- **Effects on development:** Data not available

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** At present there are no ecotoxicological assessments.
- **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:**
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.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Primary packaging:** Plastic vial (composed of polyethylene high density).

14 Transport information

· UN-Number	Not applicable
· DOT, ADR, ADN, IMDG, IATA	-
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	-
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	-
· Packing group	
· DOT, ADR, IMDG, IATA	-
· 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":	-

15 Regulatory information

- **SARA**
- **Section 302/304 (40CFR355.30 / 40CFR355.40):** None of the ingredients is listed.
- **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.

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Trade name: ENVOY 500 LOW ISE CALIBRATOR

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- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** None of the ingredient is listed.
- **TLV (Threshold Limit Value established by ACGIH)** None of the ingredient is listed.
- **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** None of the ingredient is listed.
- **NJ-RTK** None of the ingredient is listed.
- **MA-RTK** None of the ingredient is listed.
- **RI-RTK** None of the ingredient is listed.
- **US Federal Regulation** This preparation is a component of an FDA-regulated IN VITRO diagnostic medical device.

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
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - NOEC : No Observed Effect Concentration
 - EC50: Effective concentration, 50 percent
 - IC50 : Inhibitory concentration, 50 percent.

USA

1 Identification

- **Product identifier**
- **Trade name:** ENVOY 500 HIGH ISE CALIBRATOR
- **Article number:** 55117
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Reagent for IN VITRO diagnostic
- **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** The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** -
- **Hazard pictograms** -
- **Signal word** -
- **Hazard statements** -

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture of substances.
Aqueous solution.
- **Dangerous components:**
Each of the components is present in less than 1% concentration for hazardous components (or 0.1% concentration for potential carcinogens, reproductive toxins, and mutagens).

4 First-aid measures

- **Description of first aid measures**
- **General information:** Show this safety data sheet to the doctor in attendance.
- **After inhalation:**
Supply fresh air.
Move out of dangerous area.
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:**
Do not induce vomiting.
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

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Trade name: ENVOY 500 HIGH ISE CALIBRATOR

(Contd. of page 1)

· *Indication of any immediate medical attention and special treatment needed* Data not available

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
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 hazardous vapours/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**
Ensure adequate ventilation
Wear protective clothing.
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.
- **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:**
Keep receptacle tightly sealed.
Protect the product from light. Avoid exposure to heat.
- **Recommended storage temperature:** 2-30 °C
- **Specific end use(s)** Data not 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.
- **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.

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Safety Data Sheet

acc. to OSHA HCS

Printing date 11/21/2013

Reviewed on 11/15/2013

Trade name: ENVOY 500 HIGH ISE CALIBRATOR

(Contd. of page 2)

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

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.

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:	Fluid
· Color:	Colorless
· Odor:	Odorless

- **pH-value at 20 °C (68 °F):** 8.9

- **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):** 1.004 g/cm³ (8.378 lbs/gal)

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with Water:** Miscible

- **Partition coefficient (n-octanol/water):** Data not available

- **Viscosity:**

· **Dynamic:** Not determined.

- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No dangerous reactions known.

- **Chemical stability** Stable under recommended storage conditions.

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions if used according to specifications.

- **Conditions to avoid** No further relevant information available.

- **Incompatible materials:** Strong oxidizing agents, acids.

- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

- **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:** Data not available

- **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.

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Trade name: ENVOY 500 HIGH ISE CALIBRATOR

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- **Ingestion:** May be harmful if swallowed.
- **Sensitization:** Sensitizing effect is possible.
- **Additional toxicological information:** Data not available
- **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**
- **Mutagenicity:** Data not available
- **Reproductive Effects:** Data not available
- **Effects on development:** Data not available

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** At present there are no ecotoxicological assessments.
- **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:**
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:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Primary packaging:** Plastic vial (composed of polyethylene high density).

14 Transport information

· UN-Number	Not applicable
· DOT, ADR, ADN, IMDG, IATA	-
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	-
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	-
· Packing group	
· DOT, ADR, IMDG, IATA	-
· 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":	-

15 Regulatory information

- **SARA**
- **Section 302/304 (40CFR355.30 / 40CFR355.40):** None of the ingredients is listed.
- **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.

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Trade name: ENVOY 500 HIGH ISE CALIBRATOR

(Contd. of page 4)

- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)** None of the ingredient is listed.
- **TLV (Threshold Limit Value established by ACGIH)** None of the ingredient is listed.
- **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** None of the ingredient is listed.
- **NJ-RTK** None of the ingredient is listed.
- **MA-RTK** None of the ingredient is listed.
- **RI-RTK** None of the ingredient is listed.
- **US Federal Regulation** This preparation is a component of an FDA-regulated IN VITRO diagnostic medical device.

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
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - NOEC : No Observed Effect Concentration
 - EC50: Effective concentration, 50 percent
 - IC50 : Inhibitory concentration, 50 percent.

USA