Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   Trade name: StripAssay® (see Section 16)
   Catalogue Number: see Section 16
   REACH Reg. number: -----

1.2 Relevant identified uses of the substance/mixture and uses advised against
   Identified uses: Laboratory chemicals

1.3. Details of supplier of the safety data sheet
   Manufacturer: ViennaLab Diagnostics GmbH
   Gaudenzdorfer Guertel 43-45
   A-1120 Vienna, Austria
   tel: +43-1-8120156 0
   fax: +43-1-8120156 19
   email: info@viennalab.com

1.4 Emergency telephone number
   Call your local emergency center.

Section 2. Hazards identification

2.1 Classification of the substance or mixture
   DNAT
   Skin Irrit. 2 (H315), Eye Irrit. 2 (H319)

   Color Developer
   Skin Sens. 1 (H317)

   Other components
   These mixtures are classified as not hazardous or do not meet the criteria for classification according the 1272/2008/EC.

2.2 Label elements according to Regulation (EC) No 1272/2008
   DNAT
   Hazard pictograms

   Signal word: Warning

   Hazard statements:
   H315; Causes skin irritation
   H319; Causes serious eye irritation

   Precautionary statements:
   P280; Wear protective gloves/protective clothing/eye protection/face protection
   P302+P352; If on skin: Wash with plenty of water
   P305+P351+P338; If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
   P332+P313; If skin irritation occurs: Get medical advice/attention
   P337+P313; If eye irritation persists: Get medical advice/attention
Color Developer

Hazard pictograms

Signal word: Warning

Hazard statements:
H317; May cause an allergic skin reaction

Precautionary statements:
P261; Avoid breathing dust/fume/gas/mist/vapors/spray
P272; Contaminated work clothing should not be allowed out of workplace
P280; Wear protective gloves/protective clothing/eye protection/face protection
P302+P352; If on skin: Wash with plenty of water
P333+P313; If skin irritation or rash occurs: Get medical advice/attention

Other components

Hazard pictograms and signal word
This mixture is not subject to labeling according to the calculation methods of the regulation 1272/2008/EC.

2.3 Other hazards
Not known.

Section 3. Composition/information on ingredients

3.1 Mixtures

DNAT

Hazardous ingredients

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>011-002-00-6</td>
<td>1.6 % w/v</td>
</tr>
</tbody>
</table>

Classification according Regulation (EC) No. 1272/2008: Skin Irrit. 2; H315; Eye Irrit. 2; H319

Color Developer

Hazardous ingredients

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Index No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maleic acid</td>
<td>110-16-7</td>
<td>03-742-55</td>
<td>607-095-00-3</td>
<td>≤0.4 % w/v</td>
</tr>
</tbody>
</table>

Classification according Regulation (EC) No. 1272/2008: Skin Sens. 1; H317

Other components

The ingredients of the other components of the StripAssay® are not dangerous or their concentrations do not exceed the limits specified in the regulation 1272/2008/EC.

Section 4. First aid measures

4.1 Description of first aid measures

General information: Immediately take off contaminated clothing. If unwell seek medical advice.

Following inhalation: Provide fresh air. In case of irritation of the respiratory tract consult a physician.

Following skin contact: Wash with plenty of water and soap. In case of skin irritation consult a physician.

Following eye contact: Remove contact lenses. Flush immediately with plenty of flowing water for 15 minutes holding eyelids apart, protecting the uninjured eye. If necessary, consult a physician.

Following ingestion: Rinse mouth immediately and drink plenty of water (200-300 mL) in little sips (dilution effect). Avoid vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

DNAT

Symptoms: Skin irritation. Serious eye irritation. Danger of perforation of esophagus and stomach due to strong caustic effect. Risk of mucosal necrosis.
Color Developer

Symptoms: Skin sensitization. Repeated exposure may cause skin irritation. May cause allergic skin reaction. May cause slight irritation to the eyes. Ingestion may cause adverse effects.

Other components
No symptoms known up to now.

4.3 Indication of any immediate medical attention and special treatment needed
First aid, symptomatic treatment.

Section 5. Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Adapt extinguishing measures to suit the environment.

5.2. Special hazards arising from the substance or mixture
Not flammable, ambient fire may liberate hazardous vapors.

5.3. Advice for fire-fighters
In case of fire: Use self-contained breathing apparatus.

5.4. Additional information
Prevent fire extinguishing water from contaminating surface water or ground water system.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with mixture. Use personal protective equipment. Provide fresh air. Leave danger zone. Consult expert.

6.2. Environmental precautions
Do not allow to enter drainage system or water.

6.3. Methods and material for containment and cleaning up
Absorb with liquid binding and neutralizing material and dispose of according to section 13.

6.4. Reference to other sections
Observe protective measures in sections 7, 8 and 13.

Section 7. Handling and storage

7.1. Precautions for safe handling
Advice for safe handling: General occupational hygiene measures. Do not eat, drink or smoke in the work area. Wash hands after use. Change contaminated clothing before entering eating areas. Use personal protective equipment.

Precautions against fire and explosion: General measures of preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels: No special technical protective measures are necessary. Only store in original containers. Keep container tightly closed.

7.3 Specific end uses
Observe instructions for use.

Section 8. Exposure controls/personal protection

8.1 Control parameters
These mixtures do not contain substances above concentration limits fixing an occupational exposure limit.
8.2 Exposure controls

Appropriate engineering controls: Technical measures and the design of appropriate work processes go before the use of protective equipment. See section 7.1.

Hygiene measures: Do not eat, drink or smoke at the workplace. Wash hands after working with the mixtures. Preventive skin protection. Immediately change contaminated clothing.

Personal protective equipment: Minimum standards for protective measures during handling of working materials listed in TRGS 500.

Respiratory protection: With proper use, and under normal conditions, breathing protection is not required.

Hand protection: Tested protective gloves are to be worn. Chemical resistance has to be clarified with the supplier.

Eye protection: Tightly sealed goggles.

Other protection measures: Wear protective clothing to prevent contact with skin.

Environmental exposure controls: See section 7. No further action is necessary.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

**DNAT**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosion limits lower/upper</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility (20°C)</td>
<td>soluble</td>
</tr>
<tr>
<td>Corrosion</td>
<td>may be corrosive to metals</td>
</tr>
</tbody>
</table>

**Color Developer**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>minimal odor characteristics</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosion limits lower/upper</td>
<td>no data available</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility (20°C)</td>
<td>soluble</td>
</tr>
<tr>
<td>Corrosion</td>
<td>no data available</td>
</tr>
</tbody>
</table>

**Other components**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
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<tr>
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<td>no data available</td>
</tr>
<tr>
<td>Density (20°C)</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility (20°C)</td>
<td>soluble</td>
</tr>
<tr>
<td>Corrosion</td>
<td>no data available</td>
</tr>
</tbody>
</table>
9.2. Other information
Not available.

Section 10. Stability and reactivity

10.1 Reactivity

**DNAT**
Possible formation of hydrogen upon contact with amphoteric metals (such as aluminum, lead, zinc).

**Other components**
There are expected no hazardous reactions for intended use.

10.2 Chemical stability
Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

**DNAT**
Possible formation of hydrogen upon contact with amphoteric metals (such as aluminum, lead, zinc).

**Other components**
There are expected no hazardous reactions under recommended handling and storage conditions.

10.4 Conditions to avoid
None for the intended use.

10.5 Incompatible materials

**DNAT**
Strong acids, metals, halogenated hydrocarbons

**Color Developer**
Strong acids, strong bases, strong oxidizers

**Other components**
Unknown.

10.6 Hazardous decomposition products
There are expected no hazardous decomposition products under recommended handling and storage conditions.

Section 11. Toxicological information

11.1 Information on toxicological effects

**DNAT**
Toxicological data for the mixture are not available.

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** Irritant

**Eye damage/irritation:** Strong irritant

**Sensitization to respiratory tract/skin:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available on carcinogenicity in humans.

**Reproductive toxicity:** No data available on reproductive toxicity in humans.

**Specific target organ toxicity (repeated exposure):** no data available.

**Specific target organ toxicity (single exposure):** No data available.

**Aspiration hazard:** No data available.
Color Developer
Toxicological data for the mixture are not available.

Acute toxicity: No data available.
Skin corrosion/irritation: No data available.
Eye damage/irritation: No data available.
Sensitization to respiratory tract/skin: May cause allergic skin reaction.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available on carcinogenicity in humans.
Reproductive toxicity: No data available on reproductive toxicity in humans.
Specific target organ toxicity (repeated exposure): No data available.
Specific target organ toxicity (single exposure): No data available.
Aspiration hazard: No data available.

Other components
Toxicological data for the mixtures are not available.

Acute toxicity: No data available.
Eye damage/irritation: No data available.
Sensitization to respiratory tract/skin: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: The mixtures are not classified. The mixtures do not contain any substances that are classified as toxic for reproduction.
Specific target organ toxicity (repeated exposure): No data available.
Specific target organ toxicity (single exposure): No data available.
Aspiration hazard: No data available.

Section 12. Ecological information

12.1 Toxicity
No data available for the mixtures.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in soil
No data available.

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available.

12.6 Other adverse events
No data available.

Section 13. Disposal considerations

13.1 Waste treatment methods
Packaging
Disposal in accordance with applicable national and local statutes and regulations.
Section 14. Transport information

14.1 UN-Number
UN No. ---

14.2 UN proper shipping name
ADR/RID: ---
No hazardous material with respect to these transport regulations.

IMDG-Code/ICAO-/IATA-DGR: ---
No hazardous material with respect to these transport regulations.

14.3 Transport hazard class(es)
ADR/RID/IMDG-Code/ICAO-/IATA-DGR: No hazardous material with respect to these transport regulations.

14.4. Packaging group
---

14.5 Environmental hazards
No hazardous material with respect to these transport regulations.

14.6 Special precautions for user
---

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

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

EU Regulations
REACH regulation (EC) No 1907/2006 in its latest version
CLP regulation (EC) No 1272/2008 in its latest version

National regulations
Refer to the national legal regulations!

15.2 Chemical safety assessment
For these mixtures no chemical safety assessment has been carried out.

Section 16. Other information

Indication of changes compared to revision 3.4:
Update of product list

Catalogue number and Trade name (Section 1.1)

REF 4-125  β-Globin StripAssay® AZE1 a)(b
REF 4-126  β-Globin StripAssay® AZE2 a)(b
REF 4-130  β-Globin StripAssay® MED a)(b
REF 4-140  β-Globin StripAssay® IME a)(b
REF 4-150  β-Globin StripAssay® SEA a)(b
REF 4-160  α-Globin StripAssay® b)(c
REF 4-170  β-Thal Modifier StripAssay® a)(b
REF 4-210  Haemochromatosis StripAssay® B a)(b
REF 4-220  Haemochromatosis StripAssay® A a)(b
REF 4-230  FMF StripAssay® a)(b
REF 4-240  CVD StripAssay® a)(b
REF 4-243  CVD StripAssay® GRC a)(b
REF 4-250  Gaucher Disease StripAssay® a)(b
REF 4-260  FV-PTH-MTHFR StripAssay® a)(b
Components of the respective StripAssay®:

a) Lysis Solution, GEN\textsuperscript{x}TRACT Resin
b) Taq Dilution Buffer, Amplification Mix(es), DNAT, Hybridization Buffer, Wash Solution A, Conjugate Solution, Wash Solution B, Color Developer
c) (HS-)Taq DNA Polymerase
d) Hybridization Buffer, Wash Solution A, Conjugate Solution, Wash Solution B, Color Developer

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. ViennaLab Diagnostics GmbH is not held liable for any damage resulting from handling or from contact with the above mentioned products.

The safety data sheet has been prepared in accordance with EC regulation 2015/830/EC.