

Product Number **Z009**
Revision Number **RN4.1**

Revision Date 7 January 2026

1. Product and Company Identification

| | | | |
|-----------------------|---|---|--|
| Product Name | ZediXclusive Microbial Transglutaminase Assay Kit | | |
| CAS-No. | No data available | | |
| EC-No. | No data available | | |
| REACH No. | The kit does not require registration according to Regulation (EC) No 1907/2006 [REACH]. | | |
| Identified Uses | Chromogenic Assay for measurement of microbial transglutaminase activity. The kit is intended for research purposes only. | | |
| Uses Advised Against | This product is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. | | |
| Manufacturer/Supplier | Zedira GmbH Roesslerstr. 83 64293 Darmstadt Germany | Tel. +49(0)6151-66628-0 Fax. +49(0)6151-66628-19 | |
| Emergency Call | +49 6131 19240 (Poison Control Center Mainz, Germany) | | |

2. Hazards Identification

2.1 Classification of the substance or mixture - Hazardous components according to Regulation (EC) No. 1272/2008:

Hydroxylammonium chloride

Corrosive to Metals (Category 1), H290
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
Skin corrosion/irritation (Category 2), H315
Serious eye damage/eye irritation (Category 2), H319
Skin sensitization (Category 1), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 2), spleen and blood, H373
Hazardous to the aquatic environment - acute hazard (Category 1), H400

Iron(III) chloride hexahydrate

Acute toxicity (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318

2.2 Label elements

Hydroxylammonium chloride

Signal Word **Warning**

Hazard pictograms




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| Hazard statements | <p>H290: May be corrosive to metals. H302: Harmful if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H351: Suspected of causing cancer H373: May cause damage to spleen H400: Very toxic to aquatic life.</p> |
| Precautionary statements | <p>P264: Wash ... thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell. P330: Rinse mouth. P501: Dispose of contents/container to an approved waste disposal plant. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water P312: Call a POISON CENTER/doctor/.../if you feel unwell. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P308+P313: IF exposed or concerned: Get medical advice/attention. P405: Store locked up. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P314: Get medical advice/attention if you feel unwell. P273: Avoid release to the environment.</p> |

Iron(III) chloride hexahydrate

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|--------------------------|---|
| Signal Word | Danger |
| Hazard pictograms |  |
| Hazard statements | <p>H302: Harmful if swallowed H315: Causes skin irritation H318: Causes serious eye damage</p> |
| Precautionary Statements | <p>P264: Wash skin thoroughly after handling. P280: Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. 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.</p> |
| 2.3 Other hazards | none. |

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3. Composition / Information on Components

| Component | CAS Number | EC-No. | Molecular Weight | Chemical Formula | Concentration |
|--------------------------------|------------|-----------|------------------|--|---------------|
| Hydroxylammonium chloride | 5470-11-1 | 226-798-2 | 69.49 | NH ₂ OH · HCl | <5% |
| Iron(III) chloride hexahydrate | 10025-77-1 | 600-047-2 | 270.30 | Cl ₃ Fe · 6H ₂ O | <6% |

4. First Aid Measures

Skin Contact: If skin contact occurs, wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Eye Contact: After eye contact, rinse immediately with plenty of water (also under the eyelids) for at least 15 minutes, get medical attention.

Inhalation: If inhaled, move individual to fresh air and seek medical advice.

Ingestion: If swallowed, wash mouth with water and seek medical advice.

Avoid prolonged or repeated exposure. Use personal protective equipment as required.

5. Fire Fighting Measures

Use carbon dioxide extinguisher, dry chemical powder, or appropriate foam extinguisher.

6. Accidental Release Measures

Use appropriate personal protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

Avoid dust formation. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition.

Avoid release into the environment.

7. Handling and Storage

P1 is stored at ≤ -20°C. A1, A2, S are stored and shipped at 4-8°C.

Shipment of all components is possible at ambient temperature.

Avoid contact with eyes, skin, or on clothing. Wear personal protective equipment/face protection. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces, and sources of ignition. Provide appropriate exhaust ventilation at places where dust, aerosols or vapours are formed. Reduce the release of substances or mixture to the environment, avoid spills, keep away from drains.

Handle in accordance with appropriate industrial hygiene and safety practice. Keep away from food. Do not eat, drink, or smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.

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8. Exposure Controls and Personal Protection

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practice.

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Use under a chemical fume hood, if appropriate. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

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.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

| | |
|------------------------------|-------------------|
| Appearance | Kit form |
| Odor | No data available |
| Melting point/freezing point | No data available |
| Boiling point | No data available |
| Flammability | No data available |
| Lower/upper explosion limit | No data available |
| Flashpoint | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | No data available |
| Kinematic viscosity | No data available |
| Solubility | No data available |
| Partition coefficient | No data available |
| Vapour pressure | No data available |
| Density | No data available |
| Specific Gravity | No data available |
| Relative vapour density | No data available |
| Particle characteristics | No data available |

10. Stability and Reactivity

Conditions to be Avoided: Avoid direct sunlight, moisture, conditions that might generate heat and dispersion.

Substances to be Avoided: No studies have been conducted. Avoid contact with strong oxidizing or reducing agents.

11. Toxicological Information

| | |
|-----------------------------------|-------------------|
| Acute toxicity | No data available |
| Skin corrosion/irritation | No data available |
| Eye damage/irritation | No data available |
| Respiratory or skin sensitization | No data available |

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|--------------------------------|--|
| Germ cell mutagenicity | No data available |
| Carcinogenicity | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. |
| Reproductive toxicity | No data available |
| Aspiration hazard | No data available |
| Specific target organ toxicity | |
| - single exposure | No data available |
| - repeated exposure | No data available |
| RTECS Number | No data available |

12. Ecological Information

No information is available about the potential of this material to produce adverse environmental effects such as ecotoxicity, persistence and degradability, bioaccumulation, mobility (soil) or other adverse effects.

Results of PBT and vPvB assessment: No data available.

13. Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

14. Transport Information

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|--|---------------------------------|
| Land transport (ADR/RID) | Not regulated |
| Inland waterway transport (ADN) | Not regulated |
| Sea transport (IMDG) | Not regulated |
| Air transport (ICAO-TI / IATA-DGR) | Not regulated |
| Environmental hazards | No hazards identified |
| Special precautions for user | No special precautions required |
| Proper Shipping Name | Non-dangerous goods |
| Maritime transport in bulk according to IMO instruments: | Not applicable, packaged goods |

15. Regulations

This material safety data sheet (MSDS) complies with the requirements of Regulation (EC) No. 1907/2006 including amendment (EU) 2020/878.

Toxic Substances Control Act (TSCA): This substance is not subject to TSCA requirements.

Chemical safety assessment: For this product, a chemical safety assessment was not carried out.



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16. Other Information

The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Zedira GmbH shall not be held liable for any damage resulting from handling or contact with the above product.