

Product Number **Z010**  
Revision Number **RN3.1**

Revision Date 7 January 2026

## 1. Product and Company Identification

Product Name	ZediXclusive Tissue 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 tissue 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

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 <sub>2</sub> OH · HCl	<5%
Iron(III) chloride hexahydrate	10025-77-1	600-047-2	270.30	Cl <sub>3</sub> Fe · 6H <sub>2</sub> 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

4P is stored at ≤ -20°C. 1A, 2A and 3S 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

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.