# **Material Safety Data Sheet**

# **Egg White ELISA**

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Catalog No: 5138-8 Synonyms: N/A

**Intended Use:** Laboratory Use

### 1. USE OF THE SUBSTANCE/PREPARATION

Enzyme immunoassay based on microtiter plate for the quantification of egg white in food samples.

#### 2. HAZARDS IDENTIFICATION

The components of the preparation are classified according to directive 1999/45/EC as follows:

CLASSIFICATION: Microtiter strips Not classified

Calibrators

Enzyme conjugate

Washing buffer (10x concentrate)

E&D 10x

Substrate

Stop solution

Not classified

Not classified

Not classified

Corrosive, C, R34

HEALTH HAZARDS: Microtiter strips Not applicable

Calibrators Not applicable

Enzyme conjugate Not applicable

Washing buffer (10x concentrate)

Not applicable

E&D 10x Not applicable
Substrate Not applicable
Stop solution Causes burns

For detailed information to health effects and symptoms see section 11.

# Composition / Information on Ingredients

SUBSTANCE / COMPONENT: Microtiter strips Commodity

Calibrators Preparation
Enzyme conjugate Preparation
Washing buffer (10x concentrate) Preparation
E&D 10x Preparation
Substrate Preparation

Stop solution Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), 0.5 M

Hazardous substance	Concentration	CAS No.	EC No.	Classification
Sulfuric acid	1-5%	7664-93-9	231-639-5	C, R35

See section 16 for the detailed text of the above stated R-phrases.

There are no ingredients contained in the preparation which are classified as harmful or polluting in the contained concentrations according to the actual state of knowledge of the manufacturer. The product is not hazardous in the sense of the directive 67/548/EC.

### 4. First Aid Measures

INHALATION:	Microtiter strips Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Move person into fresh air. If not breathing give artificial respiration. In case of severe disturbance consult a physician.
Ingestion:	Microtiter strips Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. In case of severe disturbance consult a physician.
SKIN CONTACT:	Microtiter strips Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Rinse skin with plenty of water. Remove contaminated clothes and protective gloves. Wash clothes thoroughly before reuse. Clean shoes. In case of severe disturbance consult a physician.
EYE CONTACT:	Microtiter strips Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Rinse thoroughly with plenty of water for at least 15 minutes. In case of severe disturbance consult a physician.

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PROTECTION OF FIRST AIDER: Microtiter strips Not applicable

Calibrators

Enzyme conjugate
Washing buffer (10x concentrate)
E&D 10x
Substrate

Not applicable
Not applicable
Not applicable
Not applicable

Stop solution Do not take any actions which are connected

to any personal risk or which were not adequately trained. If vapors are suspected, wear appropriate air-purifying respirator. For first-aid providing persons there exists a possible risk due to mouth-to-mouth

resuscitation. Remove contaminated clothing.

Wear protective gloves.

ADVICE FOR PHYSICIANS: No special treatment. Treat symptomatically. In the case of ingestion or

inhalation of larger amounts consult toxicologist.

**SPECIAL TREATMENT:** No data available.

For detailed information to health impacts and symptoms see section 11.

### 5. Fire Fighting Measures

**N**OT SUITABLE EXTINGUISHING

MEDIA: Microtiter strips Not applicable

Calibrators Not applicable
Enzyme conjugate Not applicable
Washing buffer (10x concentrate) Not applicable
E&D 10x Not applicable
Substrate Not applicable
Stop solution Do not use water jet.

SUITABLE EXTINGUISHING MEDIA: Consider adjacent fires when choosing the extinguishing medium.

**DANGEROUS COMBUSTION** 

**PRODUCTS:** No data available.

**SPECIAL PROTECTIVE** 

**EQUIPMENT FOR FIRE-FIGHTERS:** Wear appropriate personal protective equipment. Wear pressure operated full-

face respirator.

### 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Microtiter strips

Calibrators

Enzyme conjugate

Washing buffer (10x concentrate)

E&D 10x Substrate Stop solution Do not take any actions which are connected to any personal risk or which were not adequately trained. Evacuate surrounding. Prohibit access for not protected persons. Do not touch or tread spilled substance. Avoid inhalation of vapors or mist. Care for sufficient ventilation. If ventilation is insufficient, wear respirator. Wear adequate

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		personal protective equipment (see section 8).
ENVIRONMENTAL PRECAUTIONS:	Microtiter strips Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Avoid spreading and drain-off of spilled material as well as contact with soil, watercourses, drains or canalization. Contact responsible department, if environmental contaminations were caused (drains, watercourses, soil or air).
METHODS FOR CLEANING:	Microtiter strips	Sweep material and dispose in an appropriate labeled container. Dispose via an approved waste disposal company.
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Eliminate leakage. Remove container from contaminated area. Swab with a cloth or adsorb with an inert dry material and dispose in an appropriately labeled container. Dispose via an approved waste disposal company.

### 7. Handling and Storage

HANDLING: Microtiter strips

Calibrators

Enzyme conjugate After handling wash hands thoroughly.

Washing buffer (10x concentrate)

E&D 10x Substrate

Stop solution Do not ingest. Avoid contact with eyes, skin or

clothes. Use only with sufficient ventilation. Do not inhale vapor or mist. After handling wash

hands thoroughly.

**Store** at 2-8°C. Protect from direct sun light. Store only in original containers. Do

not store together with food. Keep containers closed until usage. After usage close opened containers again tightly. Do not store in unlabeled containers.

Consider local regulations.

SPECIFIC USE: According to the intended use of the instruction manual for the determination of

antibodies against infectious agents. Do not use reagents for other purposes.

# 8. Exposure Controls / Personal Protection

### 8.1. EXPOSURE LIMIT VALUES

Microtiter strips
Calibrators
Enzyme conjugate
Washing buffer (10x concentrate)
E&D 10x
Substrate
Stop solution

Not applicable
Not applicable
Not applicable
Not applicable
See table

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Substance	Sulfuric acid
Type of exposure limit	Threshold limit value (Germany 2009)
Exposure limit	0.1 mg/m <sup>3</sup> determined as respirable aerosol fraction
Momentary value	0.2 mg/m <sup>3</sup> determined as respirable aerosol fraction
Maximum exposure limit	exceeding factor 1, 15 min (mean), 4x/shift, 1 hour interval

#### 8.2. EXPOSURE CONTROLS

LIMITATION OF EXPOSURE IN

THE WORKING ENVIRONMENT: No special ventilation procedures. Common ventilation should be sufficient to

limit exposure of the employees towards air pollutants. Optionally use process chambers, local exhaust fans or other technical equipment to keep exposition

under recommended or mandatory limits.

HYGIENIC MEASURES: After handling of chemical products as well as before eating, smoking or visit of a

lavatory wash hands, forearms and optionally face thoroughly. Wash

contaminated clothes before re-use. Ensure that close to the work environment

eye wash stations and safety showers are available.

**RESPIRATORY PROTECTION:** While handling according to the intended use no respiratory protection is

necessary.

HAND PROTECTION: Wear chemical resistant impenetrable gloves according to the specifications of

directive 89/686/EC and the resulting standard EN 374. Time of penetration of

the glove material: permeation level  $\geq 6$ .

**EYE PROTECTION:** To avoid exposition against liquid spills, mist, gases or dust wear safety goggles

with side protection according to the specifications of directive 89/686/EC and

the resulting standard EN166.

**BODY PROTECTION:** Wear closed lab coat.

MONITORING OF EXPOSURE IN

THE WORKING ENVIRONMENT: For methods of monitoring the respiratory exposition against chemical sub-

stances see the European standard EN 689.

LIMITATION AND MONITORING OF

**ENVIRONMENTAL EXPOSURE:** Monitor the emission of ventilation and process equipment for ensuring the

compliance with the requirements of environment protection laws. In case of

exceeding threshold values install exhaust air washers, filters or other

appropriate technical equipment.

## 9. Physical and Chemical Properties

# 9.1. GENERAL INFORMATION

PHYSICAL STATE:	Microtiter strips	plastic plate	
	Calibrators Enzyme conjugate	liquid liquid	

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	M M U N O D	IAGNOSTICS
	Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	liquid liquid liquid liquid
Color:	Microtiter strips	white/clear
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	red red clear red clear clear clear
9.2. IMPORTANT HEALTH, SAFE	TY AND ENVIRONMENTAL INFORMATION	
PH:	Microtiter strips	Not applicable
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	8-9 6-8 6-8 8-9 3-4 <1
BOILING POINT:	Microtiter strips	Not applicable
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Lowest known value (water): 100°C/212°F
MELTING POINT:	Microtiter strips	Not applicable
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	May melt at 0°C/32°F This specification is based on the ingredient water.
SOLUBILITY:	Microtiter strips	Not applicable
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Complete solubility in cold and hot water.
VAPOR PRESSURE:	Microtiter strips	Not applicable
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate	

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Stop solution

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NO AVAILABLE DATA:

To flash point, explosion limits, ignition temperatures, viscosity, oxidizing properties, density, partition coefficient (octanol/water).

# 10. Stability and Reactivity

# 10.1. CONDITIONS TO AVOID

Microtiter strips	
Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	Components of the product are stable. Under the specified storage conditions no degradation or polymerization will occur. Thermal stress.

## 10.2. MATERIALS TO AVOID

Microtiter strips	
Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate	When handled according to the intended use no hazardous reactions are to be expected.
Stop solution	Strong bases.

### 10.3. DANGEROUS DECOMPOSITION PRODUCTS

Under the specified storage and handling conditions no dangerous decomposition products are formed. In the case of fire, dangerous decomposition products (carbon oxides, nitric oxides, sulfuric oxides) may occur.

# 11. Toxicological Information

INHALATION:	Microtiter strips	
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate Stop solution	No health effects known.  May cause irritation of the respiratory system.
	Stop solution	way cause initation of the respiratory system.
INGESTION:	Microtiter strips	
	Calibrators Enzyme conjugate Washing buffer (10x concentrate) E&D 10x Substrate	No health effects known.
	Stop solution	May cause irritations in mouth or throat.
SKIN CONTACT:	Microtiter strips	
	Calibrators	

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Enzyme conjugate

No health effects known.

Washing buffer (10x concentrate)

E&D 10x Substrate

Stop solution May cause irritation of the skin.

EYE CONTACT: Microtiter strips

Calibrators

Enzyme conjugate No health effects known.

Washing buffer (10x concentrate)

E&D 10x Substrate

Stop solution May cause irritation of the eyes.

The following information is based on sulfuric acid as ingredient of the stop solution:

LD50: 2140 mg/kg (rat)

Sensitization: No sensitizing effects known.

Further information of the components to chronic toxicity, carcinogenicity, mutagenicity, teratogenicity or reproductive toxicity is not available.

# 12 Ecological Information

The following information is based on sulfuric acid as ingredient of the stop solution. For all other components no data are available.

AQUATIC TOXICITY: Harmful effects on water organisms due to pH shift. Quantitative data to the

ecological effects of the product are not available.

WATER HAZARD CLASS: WGK 1 (according to annex 2 of the German administrative rule for substances

harmful to water): weakly harmful to water.

### 13 Disposal Considerations

WASTE DISPOSAL METHODS: Consider all national environmental protection requirements and waste disposal

laws as well as local rules. Avoid spreading of spilled material through contact with

soil, water courses, drains or canalization.

HAZARDOUS WASTE: According to our current knowledge no hazardous waste in the sense of the

European directive 91/689/EC.

#### 14 Transport Information

This product is not subject to the rules of the following traffic systems:

Street traffic: ADR (directive 94/55/EC) Rail traffic: RID (directive 96/49/EC)

Sea traffic: IMDG Air traffic: ICAO/IATA

### 15 Regulatory Information

### **IDENTIFICATION ACCORDING TO**

**EUROPEAN DIRECTIVES:** The classification and identification was performed according to the European

directives 67/548/EC and 1999/45/EC (including amendments) and consider the

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intended use of the product. A Chemical Safety Assessment was not conducted

for substances included in this preparation.

Microtiter strips R-PHRASES:

Calibrators

Enzyme conjugate This product is not classified according

Washing buffer (10x concentrate) to European laws.

E&D 10x Substrate

Stop solution R34: Causes burns.

S-PHRASES: Microtiter strips

Calibrators

Enzyme conjugate S 36: Wear suitable protective clothing.

Washing buffer (10x concentrate)

E&D 10x Substrate

Stop solution S26: In case of contact with eyes, rinse

immediately with plenty of water and seek

medical advice.

\$36/37/39: Wear suitable protective clothing,

gloves and eye/face protection.

S45: In case of accident or if you feel unwell seek medical advice immediately (show the

label where possible).

Sulfuric acid as ingredient of the stop solution not listed. **EUROPEAN INVENTORY:** 

**NATIONAL RULES:** German administrative rule for substances harmful to water (VwVwS): WGK 1

(according to annex 2): weakly harmful to water.

German regulation for industrial safety (BetrSichV): no classification.

### Other Information

**COMPLETE TEXT OF THE** R-PHRASES ACCORDING TO

SECTION 2 AND 3: Microtiter strips

Calibrators

Enzyme conjugate Not applicable.

Washing buffer (10x concentrate)

E&D 10x Substrate

R34: Causes burns. Stop solution

R35: causes severe burns.

**DOCUMENT HISTORY:** Version 1: 2009-12-23 (creation and release)

HINT: The information is based on our present knowledge, but is not a guaranty of

special product properties and establishes no legal relationship.

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