

Safety Data Sheet

REF	Trade name
RE53071	Chromogranin A ELISA
RE53081	ACTH ELISA
RE53121	Glucagon-Like Peptide-1 (7-36) active ELISA
RE53131	Total GPL-1 ELISA
RE53141	Osteocalcin ELISA
RE53161	HAMA ELISA
RE53301	Fetuin-A ELISA
RE53971	Chromogranin A ELISA
RE58891	Fecal Helicobacter pylori-Antigen ELISA

Not listed single components contains no hazardous substances in concentrations to be declared, a labelling is not required.



IBL International GmbH
Flughafenstrasse 52a
22335 Hamburg, Germany

Always there for you



Safety Data Sheet
acc. to OSHA HCS

Printing date 02/12/2021

Reviewed on 02/12/2021

1 Identification

· **Product identifier**

· **Trade name:** Valid for products listed in the table on the first page.

· **Article number:** Valid for products listed in the table on the first page.

· **Application of the substance / the mixture**

laboratory reagent / Immunoassay

The product is intended for professional use.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

IBL International GmbH

Flughafenstr. 52 a

22335 Hamburg

Germany

Tel.: ++49-40-53 28 91-0

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E-Mail: IBL@tecan.com

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· **Information department:** Safety Representative

· **Emergency telephone number:** ++49-40-53 28 91 - 0

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

sulphuric acid

· **Hazard statements**

H350 May cause cancer.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

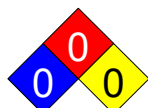
P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system**

· **NFPA ratings (scale 0-4)**



Health = 0

Fire = 0

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
Not listed reagents contains no hazardous substances in concentrations to be declared.
Labelling not required.
- **Description:**
Buffers and Diluents contains ProClin 300.
TMB Substrate contains Tetramethylbenzidine and Hydrogen peroxide.
Stop Solution contains sulphuric acid.
Mixture consisting of the following components.

· **Dangerous components:**

7664-93-9	sulphuric acid	☠ Carc. 1A, H350; ☠ Skin Corr. 1A, H314	≥0.1-<5%
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· **Components**

7664-93-9	sulphuric acid	☠ Carc. 1A, H350; ☠ Skin Corr. 1A, H314	≥0.1-<5%
7722-84-1	hydrogen peroxide solution	☠ Ox. Liq. 1, H271; ☠ Skin Corr. 1A, H314; ☠ Acute Tox. 4, H302; Acute Tox. 4, H332	<0.1%
54827-17-7	3,3',5,5'-tetramethylbenzidine	☠ Acute Tox. 2, H300; Acute Tox. 2, H310; Acute Tox. 2, H330	<0.1%
55965-84-9	Mixture: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] and 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1)	☠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ☠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ☠ Skin Sens. 1A, H317	<0.0015%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

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- *Ensure adequate ventilation.*
- **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.*
- **Protective Action Criteria for Chemicals**

· PAC-1:		
7664-93-9	<i>sulphuric acid</i>	0.20 mg/m ³
7722-84-1	<i>hydrogen peroxide solution</i>	10 ppm
54827-17-7	<i>3,3',5,5'-tetramethylbenzidine</i>	0.44 mg/m ³
· PAC-2:		
7664-93-9	<i>sulphuric acid</i>	8.7 mg/m ³
7722-84-1	<i>hydrogen peroxide solution</i>	50 ppm
54827-17-7	<i>3,3',5,5'-tetramethylbenzidine</i>	4.9 mg/m ³
· PAC-3:		
7664-93-9	<i>sulphuric acid</i>	160 mg/m ³
7722-84-1	<i>hydrogen peroxide solution</i>	100 ppm
54827-17-7	<i>3,3',5,5'-tetramethylbenzidine</i>	29 mg/m ³

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
 - *Ensure good ventilation/exhaustion at the workplace.*
 - *Open and handle receptacle with care.*
- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*
- **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.*
 - **Specific end use(s)** *No further relevant information 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**
 - *Wash hands before breaks and at the end of work.*
 - *Store protective clothing separately.*
- **Breathing equipment:**
 - *In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*

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· **Protection of hands:**



Protective gloves.

· **Material of gloves**

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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:**



Tightly sealed goggles.

· **Body protection: lab coat**

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	liquid or lyophilized
· Color:	Different according to coloring
· Odor:	uncharacteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	undetermined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapor pressure:** Not determined.

· **Density:** Not determined

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
 - dynamic:* Not determined.
 - kinematic:* Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

7664-93-9	sulphuric acid	1
7722-84-1	hydrogen peroxide solution	3

· **NTP (National Toxicology Program)**

7664-93-9	sulphuric acid	K
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information 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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Dispose of waste according to applicable local, state, and federal regulations.
- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

- **UN "Model Regulation":** Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances)**

7664-93-9	sulphuric acid
7722-84-1	hydrogen peroxide solution

· **SARA Section 313 (specific toxic chemical listings)**

7664-93-9	sulphuric acid
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· **TSCA (Toxic Substances Control Act)**

7664-93-9	sulphuric acid	ACTIVE
7722-84-1	hydrogen peroxide solution	ACTIVE
54827-17-7	3,3',5,5'-tetramethylbenzidine	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

7664-93-9	sulphuric acid	A2
7722-84-1	hydrogen peroxide solution	A3

· **MAK (German Maximum Workplace Concentration)**

7664-93-9	sulphuric acid	4
7722-84-1	hydrogen peroxide solution	4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

sulphuric acid

· **Hazard statements**

H350 May cause cancer.

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- **Precautionary statements**

- P201 *Obtain special instructions before use.*
- P202 *Do not handle until all safety precautions have been read and understood.*
- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
- P308+P313 *IF exposed or concerned: Get medical advice/attention.*
- P405 *Store locked up.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **National regulations**

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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 SDS:**

- **Date of preparation / last revision** 02/12/2021 / 4

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Carc. 1A: Carcinogenicity – Category 1A