

## Safety Data Sheet

### Kit summary

Following components used as mixtures in the kit are defined as hazardous chemical according to the Regulation (EC) N° 1272/2008.

Component	EC-No	CAS-No	% weight	Classification (pure ingredient)	Hazard Statements
Sodium Azide $\text{NaN}_3$	247-852-1	26628-22-8	0.09%	GHS06 GHS09	H300 Cat 2 H310 Cat 1 H410 Cat 1 EUH032
Proclin 300	-	55965-84-9	0.1-1%	GHS06 GHS05 GHS09	H302 Cat 4 H314 Cat 1B H317 Cat 1 H318 Cat 1 H400 Cat 1 H410 Cat 1
Sulfuric Acid	231-639-5	7664-93-9	4.2%	GHS05	H314 Cat 1A
TMB Substrate	NC	NC	< 5%	GHS07 GHS08	H315 H319 H335 H360

Other chemicals contained within these products do not meet definition of a hazardous chemical according to the Regulation (EC) N° 1272/2008.

### Section 1 – Identification

Product Identification: **ELISA kits, excepted High Sensitivity ELISA kits using Amplification Steps**

Product Code: **Cat- n° XXDCXXXX**

Product Application: **For Research Use Only**

Manufacturer:

**Reagent Genie Ireland Limited**

The Steelworks

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Phone: 00-353-1-887-9802

Emergency telephone number : 112

### Section 2 – Hazard Identification

#### 2.1 Classification

This product is not classified according to the CLP regulation

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void



Hazard statements: Void

3.2 Mixtures

Component	Contains	Identification	Classification (pure ingredient)	Hazard Statements	%
Coated Microwell strips	-	-	NA	-	-
Standards	-	-	NA	-	-
Controls	-	-	NA	-	-
Biotinylated Antibody	ProClin 300	CAS : 55965-84-9 EC : - REACH : -	GHS06 GSH05 GHS09	H302 Cat 4 H314 Cat 1B H317 Cat 1 H318 Cat 1 H400 Cat 1 H410 Cat 1	0.1%
Streptavidin- HRP	2-Methyl-2H isothiazol-3-one	CAS : 2682-20-4 EC : 220-239-6 REACH : -	GHS07	H317 Cat 1	≤ 0.06%
Standard diluent Buffer	ProClin 300	CAS : 55965-84-9 EC : - REACH : -	GHS06 GSH05 GHS09	H302 Cat 4 H314 Cat 1B H317 Cat 1 H318 Cat 1 H400 Cat 1 H410 Cat 1	1%
Standard diluent Serum	NaN <sub>3</sub>	CAS : 26628-22-8 EC : 247-852-1 REACH : 01-2119457019-37-0000	GHS06 GHS09	H300 Cat 2 H310 Cat 1 H410 Cat 1 EUH032	0.09%
Standard diluent Buffer with Casein	ProClin 300	CAS : 55965-84-9 EC : - REACH : -	GHS06 GSH05 GHS09	H302 Cat 4 H314 Cat 1B H317 Cat 1 H318 Cat 1 H400 Cat 1 H410 Cat 1	0.5%
Biotinylated Antibody Diluent	NaN <sub>3</sub>	CAS : 26628-22-8 EC : 247-852-1 REACH : 01-2119457019-37-0000	GHS06 GHS09	H300 Cat 2 H310 Cat 1 H410 Cat 1 EUH032	0.09%
HRP Diluent	ProClin 300	CAS : 55965-84-9 EC : - REACH : -	GHS06 GSH05 GHS09	H302 Cat 4 H314 Cat 1B H317 Cat 1 H318 Cat 1 H400 Cat 1 H410 Cat 1	0.1%
Wash Buffer	-	-	NA	-	-
TMB Substrate	Not communicated	CAS : NC EC : NC REACH : -	GHS07 GHS08	H315 H319 H335 H360	≤ 5%
Stop Reagent	Sulfuric Acid	CAS : 7664-93-9 EC : 231-639-5 REACH : 01-2119458838-20-0000	GHS05	H314 Cat 1A	4.2%

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Additional information**

The data and advice relate to the concentrations not of the lyophilized powder, but of the prepared solution.

**General information:** Consult a doctor if necessary and provide this SDS.

**After inhalation:** Supply fresh air; consult doctor or poison center in case of complaints.

**After skin contact:** Rinse with plenty of water and soap.

**After eye contact:** Rinse opened eye for several minutes under running water. **After**

**ingestion:** If symptoms persist consult doctor. Do NOT induce vomiting.

**Most important symptoms or effects:** No available data.

## Section 5 – Fire Fighting Measures

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Specific hazards due to combustion products:** Do not breathe fumes. Smoke from fires is toxic. Take precautions to protect personnel from exposure. Decomposition products may include carbon oxides.

**Protective equipment for firefighters:** Wear chemical protection suit and positive-pressure breathing apparatus. Wear protective clothing.

## Section 6 – Accidental Release Measures

**Person-related safety precautions:** Wear appropriate PPE.

**Measures for environmental protections:** Do not allow to enter sewers / surface or ground water. **Measures**

**for cleaning / collecting:** Dilute with plenty of water and absorb with wipe dry.

## Section 7 – Handling and storage

### 7.1 Handling

**Information for safe handling:** Avoid breathing dust, vapour, mist or gas. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use with adequate ventilation. Follow standard laboratories practices.

**Information about fire - and explosion protection:**

The product listed in this SDS contains sodium azide, a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, concentration build-ups of sodium azide may react with lead and copper plumbing to form explosion.

### 7.2 Storage

**Requirement to be met by storerooms and receptacles:** Store in a cool, dry, well ventilated area away from incompatible substances. Keep away from metal ions. **Storage class:** Store product and all components at 2-8°C.

### 8.1 Control of exposition

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

### 8.2 Personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required if ventilation is adequate.

**Protection of hands:** Protective gloves.

**Eye Protection:** Goggles recommended during refilling

**8.3 Environmental exposure controls** Not available.

## Section 9 - Physical and Chemical Properties

**Form:** Liquid **Colour:**

Components	Ingredients	Colour
Biotinylated Antibody	ProClin 300 (0.1%)	Colourless
Standard diluent Buffer	ProClin 300 (1%)	Red
Standard diluent Buffer with Casein	ProClin 300 (0.5%)	Cloudy
Standard diluent Serum	NaN <sub>3</sub> (0.09%)	Opaque Yellow
Biotinylated Antibody Diluent	NaN <sub>3</sub> (0.09%)	Blue
Streptavidin-HRP	2-methyl-2H -isothiazol-3-one (< 0.06%)	Clear amber
HRP Diluent	ProClin 300 (0.1%)	Green
TMB Substrate	Not communicated (<5%)	Colourless
Stop reagent	Sulfuric Acid (4.2%)	Colourless

**Odour:** Odourless **pH:**

N/A

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** N/A

**Evaporation rate:** N/A

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard **Density:**

N/A

**Viscosity:** N/A

**Solubility in / Miscibility with water:** Fully miscible

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No available data

## 10.2 Chemical stability

**Thermal decomposition:** No decomposition if used according to specifications. **Light:** TMB tinge in blue under light exposition.

## 10.3 Others

### Hazardous reactions:

Sulfuric acid: produces hydrogen when contact of metals.

Reagents containing  $\text{NaN}_3$ : Toxic fumes when contact with acid.

### Incompatibilities:

Sulfuric acid: with strong bases, alkali metals, organic materials, organic solvents, peroxides, permanganates, hydrides, phosphorus and phosphorous oxides.

Streptavidin-HRP: strong oxidising agents.

Reagents containing  $\text{NaN}_3$ : acid, metal, acid chloride.

Reagents containing Proclin 300: strong oxidising or reducing materials, amines.

TMB: with some common metals ions (such as iron).

### Hazardous decomposition products:

Sulfuric acid: Toxic fumes of oxides of sulphur when heated. Reacts with carbonates to generate carbon dioxide gas, and with cyanide and sulfides to form poisonous hydrogen cyanide and hydrogen sulphide respectively. (concentrated Sulfuric Acid).

TMB: Decomposition products may include carbon oxides.

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion.

### Effects of acute exposure to Product:

Acute poisoning may cause gastrointestinal irritation and renal failure. May be harmful if inhaled, swallowed or absorbed through the skin.

### Effects of chronic exposure to Product:

Chronic ingestion may result in salicylism which is characterized by nausea, vomiting, gastrointestinal ulcers, and hemorrhagic strokes. Laboratory experiments have shown some mutagenic effects. Target organs: Kidneys and central nervous system.

**Exposure Limits:** Not available

**Irritancy:** Not available

**Sensitization to Product:** Not 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.

**Teratogenicity:** Not available

**Reproductive Toxicity:** Not available

**Mutagenicity:** TMB possibly mutagenic, not proved

**Synergistic Products:** Not available

## Section 12 – Ecological Information

**Toxicity:** Harmful for aquatic life

**Persistence and degradability:** Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Results of PBT and vPvB:** Not available

**Others harmful effects:** Hazardous for water

### Section 13 – Disposal Considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations.

### Section 14 – Transport Information

**Special shipping information:** Does not need to be shipped as hazardous.

### Section 15 – Regulatory Information

Labelling in accordance with EC directives

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives.

### Section 16 – Other Information

This information is prepared on our present and best knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Full text of any Hazard statements under Section 3:**

H300: Fatal if swallowed

H302: Harmful if swallowed

H310: Fatal in contact with skin

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H360: May damage fertility or the unborn child

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

EUH032: Contact with acids liberates very toxic gas

#### **Abbreviations:**

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures

IARC: International Agency for Research on Cancer PBT: Persistent, Bioaccumulativ, Toxic vPvB: very Persistent, very Bioaccumulativ.

REACH: Registration, Evaluation, Authorization and restriction of CHEMicals

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ELISAGenie shall not be liable for any damages resulting from handling or from contact with the above products.

Notes



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