

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 | Identification | Classification | Hazard class Pictograms (pure ingredient) | % weight | Hazard Statements |
|----------------------------|---------------------------------|--|---|----------|--|
| Maleic Acid | CAS : 110-16-7 EC: 203-742-5 | H302 Cat 4 H315 Cat 2 H319 Cat 2 H317 Cat 1 H335 Cat 3 | GHS07 | ≤0.4% | H317 Cat 1 |
| 2-methyl-2-amino-1propanol | CAS : 124-68-5 EC: 204-709-8 | H315 Cat 2 H319 Cat 2 H412 Cat 3 | GHS07 | ≤1% | H315 Cat 2 H319 Cat 2 H412 Cat 3 |

Section 1 – Identification

Product Identification: **ELISpot Kit**

Product Code: **Cat- n° 856.xxx.xxxPC / 862.xxx.xxxPC / 867.xxx.xxxPC**

Product Application: **For Research Use Only**

Manufacturer:

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Section 2 – Hazard Identification

2.1 Classification of the Substance or Mixture

GHS classification

Skin Sens.1 H317

Eye Irrit.2 H319

Aquatic Chronic.3 H412

2.2 Label elements

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

Hazard pictograms:



GHS07

Signal word: Warning

Hazard statements:

H317 May cause an allergic skin reaction

H315: Causes skin irritation

H319: Causes serious eye irritation

H412: Harmful to aquatic life with long lasting effects

Precautionary Statements:

P261: Avoid breathing mist or vapours.

P264: Wash hands thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, protective clothing, and eye/face protection.



Response:

P302+P352: IF ON SKIN: Wash with plenty of water

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.

P321: Specific treatment (see section 4 on this SDS).

P363: Wash contaminated clothing before reuse.

Section 3 –Composition / Information on Ingredients

| Component | Contains | Identification | Classification | Hazard class Pictograms (pure ingredient) | % weight | Hazard Statements |
|---|--------------------------------------|-----------------------------------|--|---|----------|--|
| Pre-coated Plate | - | - | - | NA | - | - |
| Biotinylated Detection Antibody | - | - | - | NA | - | - |
| Streptavidin-AP | - | - | - | NA | - | - |
| BSA | - | - | - | NA | - | - |
| Ready to use BCIP/NBT substrate buffer | 2-methyl-2-amino-1-propanol | CAS : 124-68-5 EC: 204-709-8 | H315 Cat 2 H319 Cat 2 H412 Cat 3 | GHS07 | ≤1% | H315 Cat 2 H319 Cat 2 H412 Cat 3 |
| | Maleic Acid | CAS : 110-16-7 EC: 203-742-5 | H302 Cat 4 H315 Cat 2 H319 Cat 2 H317 Cat 1 H335 Cat 3 | GHS07 | ≤0.4% | H317 Cat 1 |
| | 5-Bromo-4-chloro-3-indoxyl phosphate | CAS : 6578-06-9 EC : 229-506-1 | H302 Cat 4 H312 Cat 4 H332 Cat 4 H315 Cat 2 H319 Cat 2 H335 Cat 3 H371 Cat 2 | GHS07 GHS08 | < 0.1% | No hazardous at this concentration |
| | Nitro Blue Tetrazolium chloride | CAS : 298-83-9 EC : 206-067-4 | H302 Cat 4 H315 Cat 2 H319 Cat 2 H335 Cat 3 | GHS07 | < 0.1% | No hazardous at this concentration |

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

BSA Bovine Serum Albumin from a certified BSE (Bovine Spongiform Encephalopathy)-free source is comprised in the kit.

Additional information

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

Section 4 - First Aid Measures

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

After inhalation: Supply fresh air; consult a doctor in case of complaints.

After skin contact: Remove contaminated clothing and shoes; rinse with plenty of water and soap and consult a doctor.

After eye contact: Rinse opened eye for at least 15 minutes under running water, remember to remove contact lenses, if any, and consult a doctor.

After ingestion: Do NOT induce vomiting. Obtain medical attention.

Most important symptoms or effects: No available data.

Section 5 – Fire Fighting Measures

Suitable extinguishing agents: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Specific hazards due to combustion products: Emits toxic fumes, carbon oxides. Do not breathe fumes.

Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation.

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

Measures for cleaning / collecting: Soak up with inert absorbent material and dispose of as hazardous waste. Avoid splashing.

Section 7 – Handling and storage

7.1 Handling

Information for safe handling: Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use with adequate ventilation.

Information about fire - and explosion protection: Keep away from sources of ignition. No smoking.

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.

Storage class: Store product and all components at 2-8°C.

Section 8 – Exposure Controls / Personal Protection

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: Wear respiratory protection or use in a chemical hood.

Hand protection: Compatible chemical resistant gloves.

Eye protection: Goggles recommended during refilling.

Skin and Body protection: Wear suitable protective clothing.

Section 9 - Physical and Chemical Properties

Form, Colour:

| Components | Ingredients | Form | Colour |
|--|--|-------------|---------------------------|
| Pre-coated Plate | - | - | - |
| Biotinylated Detection Antibody | - | Lyophilised | Blank |
| Streptavidin- AP | - | Liquid | Colourless |
| BSA | - | Powder | Light brown |
| Ready to use BCIP/NBT substrate buffer | 5-Bromo-4-chloro-3-indoxyl phosphate Nitro Blue Tetrazolium chloride 2-methyl-2-amino-1propanol Maleic Acid | Liquid | Clear to very pale yellow |

Odour: Odourless

pH: N/A

Melting point/Melting range: N/A

Boiling point/Boiling range: N/A

Flash point: N/A

Autoignition temperature: N/A

Danger of explosion: Product does not present an explosion hazard

Density: 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: BCIP/NBT tinge in brown under light exposition.

10.3 Others

Incompatibilities:

Streptavidin-AP: strong acids/alkalis, strong oxidizing/reducing agents.

BCIP/NBT: with bases, amines, alkali metals, copper, copper alloys.

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

Hazardous decomposition products:

BCIP/NBT: Toxic fumes of carbon monoxide, carbon dioxide, nitrous oxides, hydrogen chloride gas, hydrogen bromide gas, phosphorous oxides.

Section 11 - Toxicological Information

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

Effects of acute exposure to Product:

Harmful if inhaled, swallowed or absorbed through the skin. Causes eye and skin irritation.

Material is irritating and destructive to tissue of the mucous membranes and upper respiratory tract.

Effects of chronic exposure to Product:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly tested.

Exposure Limits: Not available

Irritancy: Not available

Sensitization to Product: Not available

Carcinogenicity: IARC: No components 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: Not available

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: Not available.

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 & category of any Hazard statements under Section 3:

H302: Harmful if swallowed - Category 4

H312: Harmful in contact with skin - Category 4

H315: Causes skin irritation - Category 2

H317: May cause an allergic skin allergic - Category 1

H319: Causes serious eye irritation - Category 2

H332: Harmful if inhaled - Category 4

H335: May cause respiratory irritation - Category 3

H371: May cause damage to organs - Category 2

H412: Harmful to aquatic life with long lasting effects - Category 3

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