

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
TMB Substrate	212-828-1	872-50-4	<5% N-Methyl-2-pyrrolidone	GHS07	H315 Cat 2 H319 Cat 2 H335 Cat 3 H360 Cat 1B

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 Sets, excepted Discovery Formats**

Product Code: **Cat- n° 851 xxx.xxx/ 861 xxx.xxx/ 872.xxx.xxx**

Product Application: **For Research Use Only**

Manufacturer:

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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

Section 3 –Composition / Information on Ingredients

Component	Contains	CAS Number	EC Number	Classification (pure ingredient)	Hazard Statements	%
Capture Antibody	-	-	-	NA	-	-
Standards	-	-	-	NA	-	-
Biotinylated detection Antibody	-	-	-	NA	-	-
Streptavidin- HRP	2-Methyl-2H isothiazol-3-one	2682-20-4	220-239-6-	GHS07	H317 Cat 1	≤ 0.06 %
TMB Substrate	N-Methyl-2-pyrrolidone	872-50-4	212-828-1	GHS07	H315 Cat 2 H319 Cat 2 H335 Cat 3 H360 Cat 1B	≤ 5%

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.

Section 4 - First Aid Measures

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

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

After skin contact: Remove contaminated clothing and wash skin with water and mild soap.

After eye contact: Flush thoroughly with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any.

After ingestion: Rinse mouth and drink plenty of water. Keep at rest. Do NOT induce vomiting.

Most important symptoms or effects: Larger amounts of vapours may cause fatigue, dizziness, headache, nausea and vomiting. May cause irritation of eyes and skin. Prolonged exposure to vapours may result in damage on liver, kidneys, blood or central nervous system (including brain damage).

Section 5 – Fire Fighting Measures

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Specific hazards due to combustion products: Do not breathe fumes.

Protective equipment: No special measures required.

Section 6 – Accidental Release Measures

Person-related safety precautions: Wear appropriate PPE. Avoid further spreading. Ventilate area of leak or spill.

Measures for environmental protections: Do not allow to enter drains / 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.

Information about fire - and explosion protection: Not special measures required.

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: Not required when sufficient ventilation is provided. In case of inadequate ventilation, use an approved mask (EN149) with gas filter type A (brown, for organic vapours).

Protection of hands: Protective gloves. Change the gloves when spilled on.

Eye Protection: Goggles recommended during refilling

Section 9 - Physical and Chemical Properties

Form: Liquid

Colour:

Components	Ingredients	Colour
Capture Antibody	-	Colourless
Streptavidin-HRP	2-methyl-2H -isothiazol-3-one (< 0.06%)	Clear amber
Substrate TMB	N-Methyl-2-pyrrolidone (< 5%)	Colourless

Odour: Odourless

Melting point/Melting range: N/A

Boiling point/Boiling range: N/A

Flash point: Not applicable

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: TMB tinge in blue under light exposition.

10.3 Others

Incompatibilities:

Streptavidin-HRP and TMB: strong oxidising agents.

Hazardous decomposition products:

TMB: Thermal decomposition may produce oxides of carbon and nitrogen

Section 11 - Toxicological Information

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

Effects of acute exposure to Product:

May cause irritation of mucous membranes if inhaled. Larger amounts may cause dizziness, headache and nausea.

May be harmful in contact with eyes (redness) or if absorbed through the skin (irritation).

Effects of chronic exposure to Product:

Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver, kidneys, blood or central nervous system (including brain damage)

According to animal tests, N-methyl-2-pyrrolidone may cause harm to unborn child.

Exposure Limits: N/A

Irritancy: N/A

Sensitization to Product: N/A

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: N/A

Reproductive Toxicity: N/A

Mutagenicity: TMB possibly mutagenic, not proved.

Synergistic Products: N/A

Section 12 – Ecological Information

Toxicity: Not available.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT and vPvB: Not available.

Others harmful effects: None known.

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:

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H360D: May damage the unborn child

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.