



Material Safety Data Sheet

According to 91 / 155 EEC

Handling and disposal of the product under normal laboratory conditions does not constitute a risk to personnel or environment.

1/ Data on components

Regarding components comprised in the kit, the following products are defined as hazardous chemical according the Directive 67/548/EEC.

Accordingly, Material Safety Data Sheet(s) for the following chemical(s) are enclosed:

Sodium Azide (NaN₃) at a final concentration of 0.09% or 0.9% is used as a preservative in several components of the kit.

ProClin 300 : at a final concentration from 0.01-0.1% is used as preservatives in the following components of the kit : HRP Diluent, Streptavidin-HRP

Sulfuric Acid :1N at a final concentration is used in Stop Reagent

TMB (Tetramethylbenzidine) is used as chromogen in the TMB solution

Other chemical contained within these products do not meet definition of a hazardous chemical according EC Directives.

2/ General information

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.

Section 1 – Identification of Substance

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

Cat- n° : 850 / 950 / 865 / 860 / 873

Manufacturer:

DIACLONE SAS
1, Bd Fleming
F-25000 Besançon
France
Tel: +33 3 81 41 38 38
Fax: +33 3 81 41 36 36
e-mail: info@diacclone.com
www.diacclone.com

Section 2 – Data on Components

Component	Ingredient	%	CAS Number	EC Number	Classification (pure ingredient)
Coated Microwell strips	-	-	-	-	NA
Standards		-	-	-	NA
Controls		-	-	-	NA
Biotin detection Antibody	NaN3	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Streptavidin- HRP	ProClin 300	0.1%	55965-84-9	203-821-4	C:R20/21/22-34-43 N: R51/53
Standard diluent Buffer	NaN3	0.9%(Xn)	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Standard diluent : human serum	NaN3	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Standard diluent Buffer with Caseine	NaN3	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Biotinylated Antibody Diluent	NaN3	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
HRP Diluent	ProClin 300	0.1%	55965-84-9	203-821-4	C:R20/21/22-34-43 N: R51/53
Washing Buffer	-				Not Hazardous
Substrate Solution: TMB 3,3',5,5'Tetramethylbenzidine	triethylenetetramine	0.001%	54827-17-7	259-364-6	Xi:R36-37/38
Stop Reagent	Sulfuric Acid	1N	7664-93-9	231-639-5	C:R35

Additional information

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

Section 3 – Hazard Identification

Hazard Description: Sulfuric Acid : C Corrosive

Information concerning to particular hazards to man and environment: causes burns

Hazard Description :others : not applicable.

Information concerning to particular hazards to man and environment: not applicable.

Section 4 - First Aid Measures

General information: No special measures required.

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 ingestion If symptoms persist consult doctor. Do not induce vomiting

Section 5 – Fire Fighting Measures

Suitable extinguishing agents.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment. No special measures required.

Section 6 – Accidental Release Measures

Person-related safety precautions: Not required.
Measures for environmental protections : Dilute with plenty of water.
Do not allow to enter sewers / surface or ground water.
Measures for cleaning / collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Section 7 – Handling and storage

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:
The product listed in this MSDS 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.
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.
Information about storage in one common storage facility: Not required
Further information about storage conditions: None
Storage class: Store product and all components at 2-8°C

Section 8 – Exposure Controls / Personal Protection

Additional information about design of technical facilities: No further data; see section
Ingredients with limit values that require monitoring at the workplace.
The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures are to be adhered to when handling chemicals
Respiratory protection: Not required
Protection of hands: Protective gloves
Eye Protection: Goggles recommended during refilling

Section 9 - Physical and Chemical Properties

Form: Liquid

Colour:

Components	Ingredients	Colour
Biotin Detection Antibody	NaN3 (0.09%)	Colourless
Standard diluent Buffer	NaN3 (0.9%)	Light Yellow
Standard diluent Buffer with Caseine	NaN3 (0.09%)	Opaque blank
Standard diluent : human serum	NaN3 (0.09%)	Opaque Yellow
Biotinylated Antibody Diluent	NaN3 (0.09%)	Blue
Streptavidin-HRP	ProClin 300	Colourless
HRP Diluent	ProClin 300 (0.01%)	Colourless
Substrate TMB		Clear
Stop reagent	Sulfuric Acid	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

Thermal decomposition: No decomposition if used according to specifications.

Dangerous reaction : Exothermic reaction with Water (concentrated Sulfuric Acid). Avoid contact with alkaline solutions, metal, metals powder, chlorates, nitrates, strong oxidizing or reducing materials, and combustible organic material.

Incompatible with bases, amines, alkali metals, copper, copper alloys (TMB)

Dangerous decomposition products: Toxic fumes of oxides of sulphur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. 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)

Toxic fumes of oxides of carbon monoxide, carbon dioxide, nitrous oxides, hydrogen chloride gas, hydrogen bromide gas, phosphorous oxides (TMB)

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 mutagenic effects. Target organs: Kidneys and central nervous system.

Exposure Limits : N/A

Irritancy : N/A

Sensitization to Product: N/A

Carcinogenicity :N/A

Terratogenicity: N/A

Reproductive Toxicity: N/A

Mutagenicity: N/A

Synergistic Products : N/A

Section 12 – Ecological Information

General Notes: hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Section 13 – Disposal Considerations

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

Section 14 – Transportation Information

Special shipping information: N/A

Section 15 – Regulations

Labelling according to European labelling guidelines:

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.

Prepared by: Marketing Department

Phone n° +33 3 81 41 38 38

Date: 24/08/2010