Material Safety Data Sheet

I. Product and Company Information

Product name: ELISA kits

II. Data on components

MATERIALS	SPECIFICATION	QUANTITY
MICROTITER PLATE	96 wells	strip well
ENZYME CONJUGATE	10 mL	1 vial
STANDARDS	500ul	1 vial
SUBSTRATE A	6 mL	1 vial
SUBSTRATE B	6 mL	1 vial
STOP SOLUTION	6 mL	1 vial
WASH SOLUTION (100 x)	10 mL	1 vial
BALANCE SOLUTION	6 mL	1 vial
INSTRUCTION	1	

III. Hazard Identification

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves, and protective clothing. Direct physical contact with all components in this product should be avoided.

Known Hazardous Components	CAS Number	Percent
ProClin 300	96118-96-6	0,01-0,1%
Sulfuric Acid	7664-93-9	1N
3,3‘,5,5‘-Tetramethylbenzidin: Substrate Solution	54827-17-7	< 0.04
EDTA	6381-92-6	< 0.1

Hydrogen peroxide: Substrate Solution	7722-84-1	< 0.005
Tween-20:	9005-64-5	0.1%
BSA	9048-46-8	2%

IV. First Aid Measures

Ingestion：If swallowed, wash out mouth with water provided person is conscious. Call a physician or poison control.
Skin Contact：Flush with copious amounts of water and wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.
Inhalation：Remove to fresh air. If breathing becomes difficult give oxygen. If breathing stops, administer artificial respiration. Call a physician.
Eye Contact：Flush with copious amounts of water for at least 15 minutes. Check for and remove contact lenses. Assure adequate flushing by separating the eyelids. Call a physician.
If medical attention is required, provide product label and/or MSDS.

V. 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.

VI. 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).

VII. Handling and storage

Handling: Advices on safe handling: Protective measures: wear protective clothing
Precautions against fire and explosion: Development of explosive atmosphere is not possible
Storage: Technical measures and storage conditions: Storage in light-proof, well closed containers.
Packaging materials: Containers made of polyethylen are suitable.
Requirements for storage rooms and vessels: Prevent direct sunlight and heat. Store in well aired storage rooms.
Further information on storage conditions:
Storage temperature: 2°C - 4°C
Storage stability: stable
Maximal storage period: 12 months

VIII. Physical and Chemical Properties

Substrate Solution

Physical State:	Liquid
Colour	Yellowish or bluish
Odour	Odourless
pH (20 °C):	about pH 3, acid
Melting Point (°C):	N/A
Boiling Point (°C):	N/A
Ignition temperature (°C):	N/A
Vapour Pressure:	N/A
Density	N/A
Water solubility:	very well soluble
Viscosity, dynamic (mPa s):	N/A
Explosion limits:	mixture is not explosive

Stop Solution

Physical State:	Liquid
Colour	Colourless
Odour	Odourless
pH (20 °C):	about pH 2, acid
Melting Point (°C):	about 150°C
Boiling Point (°C):	N/A
Ignition temperature (°C):	N/A
Vapour Pressure:	N/A
Density	N/A
Water solubility:	very well soluble
Viscosity, dynamic (mPa s):	N/A
Explosion limits:	mixture is not explosive

IX. Stability and Reactivity

Stable under mentioned storage conditions

Conditions to avoid: Direct sunlight, high temperature

There’s no dangerous reaction but the Substrate Solution will be defective.

Materials to avoid:

Substrate Solution: Heavy metal salt. There’s no dangerous reaction but the Substrate Solution will be defective.

Stop Solution: Bases (cause heat development), powdery metals (heat development and dynamics of the reaction depends on the acid concentration)

X. Toxicological Information

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

Effects of acute exposure to Product:

Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat. Poison may be fatal if swallowed, causes burns.

Effects of chronic exposure to Product:
Long term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

XI. Ecological information

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

XII. Disposal considerations

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

XIII. Transport information

Official transport designation: Substrate Solution, Stop Solution, and Research reagents because product is no dangerous good, no specific codes or labes are necessary.
Regulations
Labeling: Observe the general safety regulations when handling chemicals. The product has been classified and marked.
Code letter and hazard designation of product: C Corrosive

XIV. Other 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. BlueGene shall not be held liable for any damage resulting from handling or from contact with the above product.

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