

Material Safety Data Sheet

According to 91/155 EEC

This Material Safety Data Sheet applies to all the Gen-Probe Diaclone **Dual Color ELISpot PVDF Enzymatic kit**

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:

Fluorescein Isothiocyanate Isomer I: is used to label FITC conjugated detection antibody.

BCIP / NBT is used as liquid alkaline phosphatase substrate system.

AEC: is used as HRP substrate.

Sodium Acetate : is used in AEC buffer.

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

Note: BSA Bovine Serum Albumine from a certified BSE-free northamerican source is comprised in the kit.

2/ General information

The above information is believed to be correct but does not purport to be al inclusive and shall be used only as a guide. GEN-PROBE 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: Dual Color ELISpot PVDF Enzymatic kit
FITC conjugated detection antibody

Manufacturer: GEN-PROBE DIACLONE SAS
1, Bd Fleming
F-25000 Besançon
France

Tel: +33 3 81 41 38 38
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e-mail: diaclone@gen-probe.com
www.gen-probe.com

Section 2 - Data on components

Chemical characterization: Preparation

Hazardous ingredients:	%	CAS Number	EC Number
Fluorescent Isothiocyanate Isomer I	< 5%	3326-32-7	222-042-0
	Xn R42/43		

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: not applicable

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

Section 4 - First Aid Measures

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

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After skin contact Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

After eye contact Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lid.

After ingestion Allow the victim to rinse his mouth and then drink 2-4 cupfuls of water, and seek medical advice.

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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: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protections

Prevent seepage into sewage system, workpits and cellars.

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).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Section 7- Handling and storage

Handling:

Information for safe handling: 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 highly explosive metal oxides. Flush with large volumes of water to prevent azide build-up in plumbing.

Storage:

Requirement to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated area.

Information about storage in one common storage facility: Keep in tightly closed container.

Further information about storage conditions: None

Storage class:

Class according to regulation on flammable liquids: void

Section 8 - Exposure Controls / Personal Protection

Additional information about design of technical facilities: No further data; see section 7

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: pale yellow

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

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Density: N/A

Solubility in / Miscibility with
water : fully miscible

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Section 10 - Stability and Reactivity

Thermal decomposition: No decomposition if used according to specifications

Reactivity and under what conditions: Incompatible with alcohols, bases, amines, acids.

Dangerous decomposition products:

Toxic fumes of carbon monoxide, carbon dioxide and nitrous oxides.

Section 11 - Toxicological Information

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

Effects of acute exposure to Product:

Nocif in case of ingestion, inhalation or skin contact.

Irritant effect on the skin, and eyes.

Effects of chronic exposure to Product:

Long term exposure may cause asthma, nausea, dizziness and headache.

Exposure Limits	Irritancy	Sensitization To Product	Carcinogenicity
N/A	N/A	N/A	N/A
Terratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products
N/A	N/A	N/A	N/A

Section 12 - Ecological Information

General Notes: Information not yet available

Section 13 - Disposal considerations

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

Section 14 - Transport Information

Special shipping information: N/A

Section 15 - Regulations

Labelling according to European labelling guidelines:

Observe the general safety regulations when handling chemicals.

Section 16 - Other information

This information is prepared on our present 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: 01 August 2010

Material Safety Data Sheet

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Section 1 - Identification of substance

Product Identification: Dual Color ELISpot PVDF Enzymatic kit
Ready-to-use BCIP/NBT substrate buffer

Manufacturer: GEN-PROBE 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: diacclone@gen-probe.com
www.gen-probe.com

Section 2 - Data on components

Chemical characterization: Preparation

Hazardous ingredients:	%	CAS Number	EC Number
BCIP (5-Bromo-4-chloro-3-indoxyl phosphate)	0,03% w/v	6578-06-9	229-506-1
	Xi;R36/37/38		
NBT (Nitro blue tetrazolium chloride)	0,06% w/v	298-83-9	206-067-4
	Xn R20/21/22-68		

Section 3 - Hazard Identification

Hazard Description: harmful
Irritating to eyes, respiratory system and skin
Harmful if swallowed, inhaled or absorbed through skin.
Avoid contact with metals.
Air and light sensitive
Refrigerate for best storage

Section 4 - First Aid Measures

After skin contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lid.
After ingestion Do not induce vomiting; allow the victim to rinse his mouth and then drink 2-4 cupfuls of water, and seek medical advice.

Section 5 - Fire Fighting Measures

Suitable extinguishing agents
Use dry chemical, carbon dioxide 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:
Evacuate area and ventilate area.
Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Absorb on sand or vermiculite and place in closed containers for waste disposal.
Avoid splashing.

Section 7- Handling and storage

Refer to section 8.

Section 8 - Exposure Controls / Personal Protection

The usual precautionary measures are to be adhered to when handling chemicals.
Chemical safety goggles.

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Use only in a chemical fume hood.
Compatible resistant gloves.
Avoid any skin or clothing contact.
Wash thoroughly after handling.
Keep tightly closed and refrigerate.

Section 9 - Physical and Chemical Properties

Form: Liquid
Colour: Clear to very pale yellow solution
Odour: Odourless
Melting point/Melting range: 0°C (water)
Boiling point/Boiling range: 100°C (water)
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
Reactivity and under what conditions:
Incompatibles with bases, amines, alkali metals, copper, copper alloys
Hazardous decomposition products
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 swallowed, inhaled or absorbed through skin. Cause eyes 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.

Section 12 - Ecological Information

General Notes: N/A

Section 13 - Disposal considerations

Waste disposal:
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.
Observe all local official environmental regulations.

Section 14 - Transport Information

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

Section 15 - Regulations

Labelling according to European labelling guidelines:
Observe the general safety regulations when handling chemicals.

Section 16 - Other information

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Section 1 - Identification of substance

Product Identification: Dual Color ELISpot PVDF Enzymatic kit
AEC Substrate

Manufacturer: GEN-PROBE 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: diacclone@gen-probe.com
www.gen-probe.com

Section 2 - Data on components

Chemical characterization: Preparation

Hazardous ingredients:	%	CAS Number	EC Number
AEC 3-Amino-9-ethylcarbazole	2% w/v	132-32-1	205-057-7
		T, Carc. Cat1 and 2. R25-R45	
Sodium acetate		127-09-3	N/A

Section 3 - Hazard Identification

Hazard Description: harmful if swallowed, inhaled or absorbed through skin.
May cause skin irritation.

Section 4 - First Aid Measures

After skin contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lid.

After ingestion Wash out mouth with water provided and then drink 2-4 cupfuls of water, and seek medical advice.

Section 5 - Fire Fighting Measures

Suitable extinguishing agents

Use dry chemical, carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment Use respirator and protective clothing. Toxic fumes could be emitted when water is evaporated with fire.

Section 6 - Accidental Release Measures

Person-related safety precautions: Not required.

Measures for environmental protections:

Evacuate area and ventilate area.

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Absorb on sand or vermiculite and place in closed containers for waste disposal.

Avoid splashing.

Section 7- Handling and storage

Refer to section 8.

Section 8 - Exposure Controls / Personal Protection

The usual precautionary measures are to be adhered to when handling chemicals.

Chemical safety goggles.

Compatible resistant gloves.

Avoid any skin or clothing contact.

Wash thoroughly after handling.

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Keep tightly closed and refrigerate.

Section 9 - Physical and Chemical Properties

Form: Liquid
Colour: Clear deep reddish solution
Odour: Odourless
Melting point/Melting range: 0°C (water)
Boiling point/Boiling range: 100°C (water)
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
Reactivity and under what conditions:
Incompatibles with strong oxidating agents and strong bases.
Hazardous decomposition products
Toxic fumes of carbon monoxide, carbon dioxide.

Section 11 - Toxicological Information

Route of entry: Skin Contact, Eye contact, Inhalation, Ingestion
Effects of acute exposure to Product:
Harmful if swallowed, inhaled or absorbed through skin. May cause irritation.
Effects of chronic exposure to Product:
Carcinogen.
Lab experiments have shown mutagenic effects.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Effects of overexposure:

INHALATION: Adverse health effects from vapors and spray mists in poorly ventilated areas may include irritation of the mucous membranes of the nose, throat, respiratory tract and symptoms of headache and nausea.
SKIN CONTACT: Avoid all contact. May cause cancer.
EYE CONTACT: Avoid all contact.

Section 12 - Ecological Information

General Notes: N/A

Section 13 - Disposal considerations

Waste disposal:
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.
Observe all local official environmental regulations.

Section 14 - Transport Information

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

Section 15 - Regulations

Labelling according to European labelling guidelines:
Observe the general safety regulations when handling chemicals.

Section 16 - Other information

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