

## Material Safety Data Sheet

According to 2001 / 158 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:** at a final concentration of 0.09% or 0.9% is used as a preservative in several components of the kit.

**Pentachlorophenol:** at a final concentration < 0.01% (0.0005%) is used as a preservative in the Streptavidin Phycoerythrin conjugate..

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. 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: **Human Th1 / Th2/ Inflammation DIAplex kit**

Manufacturer: **GEN-PROBE DIACLONE SAS**

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## Section 2 – Data on Components

Component	Ingredient	Concentration	CAS Number	EC Number	Classification (pure ingredient)
Anti h IL-2 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-4 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-6 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53

Anti h IL-1 $\beta$ Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-8 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-10 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-12p70 Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-17A Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IFN $\gamma$ Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h TNF $\alpha$ Beads	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-2 Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-4 Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-6 Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-1 $\beta$ Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-8 Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
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Anti h TNF $\alpha$ Biotin	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-2 Standards	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-4 Standards	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-6 Standards	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Anti h IL-1 $\beta$ Standards	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
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Anti h TNF $\alpha$ Standards	Sodium Azide	0.09%	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Assay Buffer 10X	Sodium Azide	0.9% Xn	26628-22-8	247-852-1	T+: R28,R38; N:R50/53
Streptavidin phycoerythrin conjugate	Pentachlorophenol	<0.01% w/v	87-86-5	201-778-6	T+: R24/25-26 R36/37/38-40 N: R50/53

### **Additional information**

Material safety data sheet for Sodium azide:

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**

**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.

## **Section 5 – Fire Fighting Measures**

Suitable extinguishing agents.

CO<sub>2</sub>, 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: Not required

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:** 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:** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

## 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.

## 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.

#### **Additional information**

Material safety data sheet for pentachlorophenol :  
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

**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.  
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### Section 5 – Fire Fighting Measures

Suitable extinguishing agents.  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Protective equipment. No special measures required.

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**Person-related safety precautions:** Not required.

**Measures for environmental protections :** Dilute with plenty of water.  
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**Measures for cleaning / collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Prepared by: Marketing department

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