

OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

CTL-TEST™ PLUS CTL-TEST™ B

## **Section 1: IDENTIFICATION**

**Product name:** CTL-Test<sup>™</sup>, CTL-Test<sup>™</sup> PLUS, CTL-Test<sup>™</sup> B (ImmunoSpot<sup>®</sup> Kit)

Catalog number: CTLT-010, CTLT-005, CTLTP-010, CTLTP-005, CTLTB-010, CTLTB-005; serum-free cell culture

medium included in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US kits@immunospot.com www.immunospot.com

**Recommended usage:** CTL-Test™ Medium provides a nutritionally complete and balanced environment for cells

used in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

**Emergency telephone:** +1 216-791-5084; +1 888-791-4005 Toll Free US

### Section 2: HAZARD(S) IDENTIFICATION

**Classification:** Buffered, serum-free solution containing a proprietary blend of injection-grade water

supplemented with amino acids, vitamins, inorganic salts, and HSA; none of which are

considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture
Risk phrases: Not a hazardous mixture

**Safety phrases:** S36/S37 – Wear suitable protective clothing and gloves.

## **Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
HSA	70024-90-7	274-272-6	N/A

### **Section 4: FIRST-AID MEASURES**

#### Description of first aid measures:

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** No treatment as this product is not likely to be inhaled.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

CTL-TEST™ CTL-TEST™ PLUS CTL-TEST™ B

### **Section 5: FIRE-FIGHTING MEASURES**

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary

## **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment

**Environmental precautions:** No precautions required

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

### **Section 7: HANDLING AND STORAGE**

**Precautions for** Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

**Conditions for safe storage:** Store refrigerated at 4°C, protect from light

**Incompatible materials:** Strong acids, strong oxidizing agents, and strong reducers.

#### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**PEL:** This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

**Personal protective** 

**equipment:** Wear chemical-resistant gloves

**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

**Environmental** 

**exposure controls:** Follow best practice for site management and disposal of waste.

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear orange-red liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

CTL-TEST™ CTL-TEST™ PLUS CTL-TEST™ B

### **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

**reactions:** No data available

Conditions to avoid: No data available

**Incompatible materials:** Strong acids, strong oxidizing agents, and strong reducers.

Hazardous

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

**Routes of entry/exposure:** Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: No data available

Acute effects on skin: Not a skin irritant

Chronic effects on skin: No data available

Acute effects on eyes: Not an eye irritant

Chronic effects on eyes: No data available

**Carcinogenicity:** No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

#### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available

Persistance and

biodegradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

**Other adverse effects:** No data available on the adverse effects of this material on the environment.

### **Section 13: DISPOSAL CONSIDERATIONS**

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

**Packaging waste treatment:** Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

CTL-TEST™ PLUS
CTL-TEST™ B

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

### U.S. federal and state regulations:

**TSCA:** CAS# 70024-90-7

**California proposition 65:** Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

**EU labeling:** EC #247-272-6

## **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DETECTION ANTIBODY** 

### **Section 1: IDENTIFICATION**

**Product name: Detection Antibody** (ImmunoSpot® Kit)

**Product description:** Any Biotinylated or FITC-conjugated component used in any species of ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T ● +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

**Recommended usage:** Detection Antibodies are used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

## Section 2: HAZARD(S) IDENTIFICATION

**Classification:** Solution containing between 0.09% sodium azide and 1% BSA as a carrier protein.

Neither are considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

**Risk phrases:** Not a hazardous mixture

**Safety phrases:** \$36/\$37 – Wear suitable protective clothing and gloves.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Sodium Azide	26628-22-8	247-852-1	0.09%
BSA	9048-46-8	232-936-2	0.2-1.0%

### **Section 4: FIRST-AID MEASURES**

**Description of first aid measures:** 

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** If inhaled, move to fresh air.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.

### **Section 5: FIRE-FIGHTING MEASURES**

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DETECTION ANTIBODY** 

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

**Environmental precautions:** No precautions required

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

### **Section 7: HANDLING AND STORAGE**

**Precautions for** Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

**Conditions for safe storage:** Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

**Personal protective** 

**equipment:** Wear chemical-resistant gloves



**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

**Environmental** 

**exposure controls:** Follow best practice for site management and disposal of waste.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DETECTION ANTIBODY** 

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

**Incompatible materials:** Strong oxidizing agents

Hazardous

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Sodium Azide: Oral Rat, LD50: 27mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

**Acute effects on eyes:** May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

#### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available

**Persistance and** 

**biodegradability:** No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

**Other adverse effects:** No data available on the adverse effects of this material on the environment.

## **Section 13: DISPOSAL CONSIDERATIONS**

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

**Packaging waste treatment:** Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DETECTION ANTIBODY** 

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

## **U.S. Federal and State Regulations:**

TSCA: CAS# 26628-22-8, Sodium Azide

CAS# 9048-46-8, BSA

California proposition 65: Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

**EU labeling:** EC #247-852-1, Sodium Azide

EC #232-936-2, BSA

#### **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 1: IDENTIFICATION**

**Product name: Tertiary Reagent** (ImmunoSpot® Kit)

**Product description:** CTL-Strep-Red<sup>™</sup> and CTL-Strep-Blue<sup>™</sup> are components used in any species of multicolor

fluorescent ImmunoSpot® Kits

**Company name:** Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

**Recommended usage:** Tertiary Reagents are used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

#### Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.09% sodium azide; not considered hazardous at the

concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

**Safety phrases:** S36/S37 – Wear suitable protective clothing and gloves.

#### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Sodium Azide	26628-22-8	247-852-1	0.09%

### **Section 4: FIRST-AID MEASURES**

**Description of first aid measures:** 

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** If inhaled, move to fresh air.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.

#### Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

**Environmental precautions:** No precautions required

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

## **Section 7: HANDLING AND STORAGE**

**Precautions for** 

safe handling: Use only with adequate ventilation. Wear chemical-resistant gloves.

**Conditions for safe storage:** Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values

**Personal protective** 

**equipment:** Wear chemical-resistant gloves



**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

**Environmental** 

**exposure controls:** Follow best practice for site management and disposal of waste.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

**Incompatible materials:** Strong oxidizing agents

**Hazardous** 

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

**Routes of entry/exposure:** Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Oral Rat, LD50: 27mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

**Acute effects on eyes:** May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

**Germ cell mutagenicity:** No data available

Symptoms of

chemical exposure: None known

#### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available

**Persistance and** 

**biodegradability:** No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

**Other adverse effects:** No data available on the adverse effects of this material on the environment.

## **Section 13: DISPOSAL CONSIDERATIONS**

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

**Packaging waste treatment:** Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

#### U.S. federal and state regulations:

**TSCA:** CAS# 26628-22-8

**California proposition 65:** Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

**EU labeling:** EC# 247-852-1

## **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

## **Section 1: IDENTIFICATION**

Product name: Tertiary Reagent (ImmunoSpot® Kit)

**Product description:** Anti-FITC Alexa Fluor® 488, Anti-Hapten1-CTL-Yellow™, and Anti-Hapten2-CTL-Red™ are

components used in any species of multicolor fluorescent ImmunoSpot® Kits

**Company name:** Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

**Recommended usage:** Tertiary Reagents are used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

## Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.05–0.09% sodium azide and 0.2–1.0% BSA; neither of

which are considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

Risk phrases: Not a hazardous mixture

**Safety phrases:** \$36/\$37 – Wear suitable protective clothing and gloves.

#### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Sodium Azide	26628-22-8	247-852-1	0.05-0.09%
BSA	9048-46-8	232-936-2	0.2-1.0%

### **Section 4: FIRST-AID MEASURES**

#### **Description of first aid measures:**

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** If inhaled, move to fresh air.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 5: FIRE-FIGHTING MEASURES**

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

**the substance or mixture:** No further relevant information available.

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary.

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

**Environmental precautions:** Avoid runoff into waterways and sewers.

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

### **Section 7: HANDLING AND STORAGE**

**Precautions for** Use only with adequate ventilation. **safe handling:** Wear chemical-resistant gloves.

Conditions for safe storage: Store refrigerated at 4°C

Incompatible materials: N/A

#### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values

**Personal protective** 

**equipment:** Wear chemical-resistant gloves.

**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

**exposure controls:** Follow best practice for site management and disposal of waste.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

Incompatible materials: No data available

Hazardous

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

Routes of entry/exposure: Skin, eyes, ingestion

**Reproductive toxicity:** No data available

Acute toxicity: Sodium Azide: Oral Rat, LD50: 27mg/kg

Acute effects on skin: No data available

Chronic effects on skin: No data available

Acute effects on eyes: No data available

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**TERTIARY REAGENT** 

### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** Avoid release into environment.

Persistance and

**biodegradability:** No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

Other adverse effects: No further data available

### **Section 13: DISPOSAL CONSIDERATIONS**

**Product waste treatment:** Dispose of product waste in accordance with applicable national, regional, or

local regulations.

Packaging waste treatment: Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

#### U.S. federal and state regulations:

TSCA: CAS# 26628-22-8, Sodium Azide

CAS# 9048-46-8, BSA

**California proposition 65:** Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

**EU labeling:** EC# 247-852-1, Sodium Azide

EC# 232-936-2, BSA

## **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

#### Issued 12-01-15

Alexa Fluor® is provided under an intellectual property license from Life Technologies Corporation, US Patent No. 6130,101, AU 0750380, EP 0966458 (validated in CH, DE, FR, GB, NL, and SE), JP 2011-508494, JP 2010-56739.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT C** 

#### **Section 1: IDENTIFICATION**

**Product name: Diluent C** (ImmunoSpot® Kit)

**Product description:** A component used in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

**Recommended usage:** Diluent C is used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

### Section 2: HAZARD(S) IDENTIFICATION

**Classification:** Solution containing 1% BSA as a carrier protein; not considered hazardous at the

concentration level used.

**GHS signal word:** Not a hazardous mixture

**Hazard statements:** Not a hazardous mixture **Precautionary statements:** Not a hazardous mixture

**Response statements:** Not a hazardous mixture

Risk phrases: Not a hazardous mixture

**Safety phrases:** S36/S37 – Wear suitable protective clothing and gloves.

### **Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
BSA	9048-46-8	232-936-2	1.0%

### **Section 4: FIRST-AID MEASURES**

Description of first aid measures:

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** If inhaled, move to fresh air.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.

#### **Section 5: FIRE-FIGHTING MEASURES**

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: No further relevant information available.

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT C** 

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

**Environmental precautions:** No precautions required

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

## **Section 7: HANDLING AND STORAGE**

**Precautions for** 

**safe handling:** Use only with adequate ventilation. Wear chemical-resistant gloves.

**Conditions for safe storage:** Store refrigerated at 4°C

Incompatible materials: N/A

## **Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

**Personal protective** 

**equipment:** Wear chemical-resistant gloves



**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

Environmental

**exposure controls:** Follow best practice for site management and disposal of waste.

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT C** 

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available Incompatible materials: No data available

Hazardous

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

**Routes of entry/exposure:** Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: No data available

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

**Acute effects on eyes:** May cause eye irritation

Chronic effects on eyes: No data available

**Carcinogenicity:** No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

#### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available

**Persistance and** 

**biodegradability:** No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available

**Other adverse effects:** No data available on the adverse effects of this material on the environment.

## **Section 13: DISPOSAL CONSIDERATIONS**

Product waste treatment: Dispose of product waste in accordance with applicable national, regional, or

local regulations.

**Packaging waste treatment:** Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT C** 

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

#### U.S. federal and state regulations:

**TSCA:** CAS# 9048-46-8

**California proposition 65:** Not listed as one of California's known or potential carcinogens.

CERCLA/SARA: Not listed

**EU labeling:** EC# 232-936-2

## **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

Issued 12-01-15



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT B** 

### **Section 1: IDENTIFICATION**

**Product name:** Diluent B (ImmunoSpot® Kit)

**Product Description:** A component used in all ImmunoSpot® Kits.

Company name: Cellular Technology Limited

20521 Chagrin Boulevard

Shaker Heights, OH 44122-5350 USA +1 216-791-5084 T • +1 216-751-1373 F

+1 888-791-4005 Toll Free US

kits@immunospot.com www.immunospot.com

**Recommended usage:** Diluent B is used to detect cellular secretions in ELISPOT assays.

For laboratory research use only. Not for use in diagnostic or therapeutic procedures.

Emergency telephone: +1 216-791-5084; +1 888-791-4005 Toll Free US

## Section 2: HAZARD(S) IDENTIFICATION

Classification: Solution containing between 0.05% Tween 20 and 1% BSA as a carrier protein; neither of

which are considered hazardous at the concentration level used.

GHS signal word: Not a hazardous mixture
Hazard statements: Not a hazardous mixture
Precautionary statements: Not a hazardous mixture
Response statements: Not a hazardous mixture

**Risk phrases:** Not a hazardous mixture

**Safety phrases:** S36/S37 – Wear suitable protective clothing and gloves.

#### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CONTAINS	CAS NUMBER	EC NUMBER	CONTENT
Tween 20	9005-64-5	500-018-3	0.05%
BSA	9048-46-8	232-936-2	1.0%

### **Section 4: FIRST-AID MEASURES**

Description of first aid measures:

**Skin and eyes:** In case of contact with eyes, wash or flush eyes as a precaution.

**Inhalation:** If inhaled, move to fresh air.

**Ingestion:** If ingested do not induce vomiting; rinse mouth with water.

#### Section 5: FIRE-FIGHTING MEASURES

Suitable extinguising media: Carbon dioxide extinguishing powder, dry chemicals, or water spray can be used for small

fires. Fight larger fires with water spray or alcohol-resistant foam.

Special hazards arising from

the substance or mixture: Carbon oxides

**Advice for firefighters:** Wear self-contained breathing apparatus if necessary.



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT B** 

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use proper personal protective equipment, avoid breathing vapors, mist, gas, or dust.

**Environmental precautions:** No precautions required

**Containment/** For spills and leaks, ventilate area of leak or spill. Absorb spill using an absorbent, **clean-up measures:** noncombustable material and dispose of collected material according to local and

regional regulations.

## **Section 7: HANDLING AND STORAGE**

**Precautions for** 

safe handling: Use only with adequate ventilation. Wear chemical-resistant gloves.

**Conditions for safe storage:** Store refrigerated at 4°C **Incompatible materials:** Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

PEL: This product does not contain any ingredients listed on OSHA PEL Threshold Limit Values.

**Personal protective** 

**equipment:** Wear chemical-resistant gloves



**General protective** Handle in accordance with good industrial hygiene and safety practice.

hygiene considerations: Wash hands thoroughly with soap and water after handling and before eating or drinking.

Safety shower and eye wash should be available and close to work areas.

**Environmental** Follow best practice for site management and disposal of waste.

**exposure controls:** Avoid release into drains and the environment.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear colorless liquid	Vapor pressure	Not available
Odor	Odorless	Vapor density	Not available
Odor threshold	Not available	Relative density	Not available
рН	Not available	Solubility	Complete
Melting point	Not available	Partition coefficeient	Not available
Freezing point	Not available	Auto-ignition temperature	Not available
Initial boiling point and range	Not available	Decomposition temperature	Not available
Flash point	Not available	Evaporation rate	Not available
Flammability (solid, gas)	Not available	Viscosity	Not available
Upper/lower flammability or explosive limits	Not available		



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT B** 

## **Section 10: STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions: No data available

Conditions to avoid: No data available

**Incompatible materials:** Strong oxidizing agents

Hazardous

decomposition products: None

### **Section 11: TOXICOLOGICAL INFORMATION**

Routes of entry/exposure: Skin, eyes, ingestion

Reproductive toxicity: No data available

Acute toxicity: Oral Rat, LD50, 40: 554mg/kg

Acute effects on skin: May cause skin irritation

Chronic effects on skin: No data available

**Acute effects on eyes:** May cause eye irritation

Chronic effects on eyes: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Symptoms of

chemical exposure: None known

#### **Section 12: ECOLOGICAL INFORMATION**

**Toxicity:** No data available

**Persistance and** 

**Bioaccumulative potential:** No data available **Mobility in soil:** No data available

**Other adverse effects:** No data available on the adverse effects of this material on the environment.

## **Section 13: DISPOSAL CONSIDERATIONS**

**Product waste treatment:** Dispose of product waste in accordance with applicable national, regional, or

local regulations.

**Packaging waste treatment:** Dispose of packaging waste in accordance with applicable national, regional, or

local regulations.

**Precautions:** No data available



OSHA HCS 29 CFR 1910.1200(g) and GHS Rev 06

**DILUENT B** 

### **Section 14: TRANSPORT INFORMATION**

DOT number: Not a dangerous goodUN number: Not a dangerous goodIMDG code: Not a marine pollutantIATA code: Not a dangerous good

### **Section 15: REGULATORY INFORMATION**

#### U.S. federal and state regulations:

**TSCA:** CAS# 9005-64-5, Tween 20 CAS# 9048-46-8, BSA

California proposition 65: Not listed as one of California's known or potential carcinogens.

**CERCLA/SARA:** Not listed

**EU labeling:** EC #500-018-3, Tween 20

EC #232-936-2, BSA

#### **Section 16: OTHER INFORMATION**

The information and recommendations in this Safety Data Sheet are believed to be accurate as of the date of issue. Nothing herein shall be deemed to create a warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this data to formulate the necessary safety precautions, as well as to decide the suitablity of the material or product for any particular purpose. This product is intended for use only by persons having necessary technical skills and facilities for its proper handling. Since the conditions and manner are outside of the control of Cellular Technology Limited (CTL), CTL shall not be held liable for any damage or injury resulting from the use, misuse, or mishandling of the above product, or the information contained in this Safety Data Sheet.

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