

453/2010/EC

Version 04 Revision 05.04.2022 Printing date 05.04.2022

### Useable for:

SP A-1000 STAINPerfect immunostaining Kit A

SP-T-0001 STAINperfect Neurotransmitters - Trial pack

Single components with dangerous ingredients:

REF: SP A-1005 Fixation Reagent

REF: SP A-1008 Stabilization Reagent

Not listed single components contains no hazardous substances in concentrations to be declared, a labelling is not required.



According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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# 1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: **Fixation Reagent** 

· Article number: SP A-1005

· Application of the substance / the preparation: laboratory reagent / Immunoassay The product is intended for professional use.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

**ImmuSmol** 229, Cours de l'Argonne 33000 BORDEAUX, FRANCE Phone +33 5 64 31 11 70 E-mail contact@immusmol.com

# 2 Hazards identification

· Classification of the substance or mixture

GHS05 corrosion H318 Causes serious eye damage.

GHS08 health hazard H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled

GHS07 H332 Harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful R20/22: Harmful by inhalation and if swallowed.

Xi; Irritant R37/38-41: Irritating to respiratory system and skin. Risk of

serious damage to eyes.

Xn; Sensitising R42/43: May cause sensitisation by inhalation and skin

contact.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS05, GHS07, GHS08
- Signal word Danger
- · Hazard-determining components of labelling: glutaral
- · Hazard statements H332 Harmful if inhaled. H315 Causes skin irritation.



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Trade name: Fixation Reagent

H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures Preparation
- · **Description:** Trade secret (Reagent mixture)
- · Relevant phrases

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H400 Very toxic to aquatic life.

R23/25 Toxic by inhalation and if swallowed.

R34 Causes burns.

R42/43 May cause sensitisation by inhalation and skin contact.

R50 Very toxic to aquatic organisms.

#### 4 First aid measures

- Description of first aid measures
- General information

Personal protection for the First Aider.

· After inhalation

Supply fresh air or oxygen; call for doctor.

· After skin contact

Immediately remove any clothing soiled by the product. Rinse with warm water. Dab with polyethylene glycol 400. Seek medical treatment.

Rinse opened eye for several minutes under running water. Call a doctor immediately.

- After swallowing Do not induce vomiting; call for medical help immediately. Do not attempt to neutralize.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.



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### 5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture Non-combustible. Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:carbon oxides (CO, CO2).
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device
- · Additional information: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact.

Do not inhale steams/aerosols. Ensure adequate ventilation

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- · Handling
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

No special measures required.

- · Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles:

No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Open receptacle only under localized extractor facilities. Store receptacle in a well ventilated

Store under lock and key and with access restricted to technical experts or their assistants only.

- Recommended storage temperature: 2-8°C
- Storage class: 6.1 B
- · **Specific end use(s)** No further relevant information available.



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# 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Lmit values that require monitoring at the workplace:

Short-term value: 0.2 mg/m<sup>3</sup>, 0.05 ppm Long-term value: 0.2 mg/m<sup>3</sup>, 0.05 ppm

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Personal protective equipment
- General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective

gloves.Les paramètres nécessaires sont manquants ou erronés.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

· Body protection: lab coat

Tightly sealed goggles.





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# 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form: Liquid · Colour: Colourless · Odour: Odourless

Not determined · Odour threshold: Not determined · pH-value at 20°C:

· Change in condition

Melting point/Melting range: -21°C

Boiling point/Boiling range: 101°C at 1,à13hPA

· Flash point: Not applicable

· Flammability (solid, gaseous) Not applicable

· Ignition temperature: 425°C

 Decomposition temperature: Not determined

Self-igniting: Product is not self-igniting. · Danger of explosion: Not determined

• Explosion limits (lower, upper): Not determined

· Vapour pressure: 20hPA at 20°C Density at 20°C: 3,46 - (Air=10) · Relative density 1,016g/cm<sup>3</sup> · Vapour density Not determined

· Evaporation rate Not determined · Solubility in / Miscibility with Water: Fully miscible Segregation coefficient (n-octanol/water): Not determined · Viscosity: Not determined

· dynamic: Not determined kinematic: Not determined

Solvent content:

0 % Organic solvents:

No further relevant information · Other information

available.

# 10 Stability and reactivity

- Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: Heating
- · Possibility of hazardous reactions Violent reactions possible with: amines, strong oxidants, strong acids
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information: Incompatible with: various metals



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### 11 Toxicological information

#### Information on toxicological effects

- Acute toxicity:
- LD/LC50 values relevant for classification:

Oral LD50 134 mg/kg (rat) Dermal LD50 2560 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Harmful

Irritant

#### 12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow to enter waters, waste water, or soil.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system

- Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.



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# 14 Transport information

· UN-Number Void · UN proper shipping name Void Transport hazard class(es) Void · Packing group Void · IMDG Void

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable. Not applicable. · Transport in bulk according to

Annex II of MARPOL73/78 and the IBC Code

· Transport/Additional Not dangerous according to the above specifications. information This product is part of a kit. Information in this section refers to the kit as a whole.

· ADR/ AND / IMDG / IATA

No dangerous good in sense of this transport regulation. · Remarks:

### 15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based 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

### · Relevant phrases

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H400 Very toxic to aquatic life.

R23/25 Toxic by inhalation and if swallowed.

R34 Causes burns.

R42/43 May cause sensitization by inhalation and skin contact.

R50 Very toxic to aquatic organisms.

· Department issuing MSDS: Safety Representative

· Contact: ImmuSmol



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### 1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: Stabilization Reagent

· Article number: SP A-1008

- · Application of the substance / the preparation: laboratory reagent / Immunoassay The product is intended for professional use.
- · Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

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E-mail contact@immusmol.com

### 2 Hazards identification

· Classification of the substance or mixture

GHS02 flame H318 Causes serious eye damage

GHS05 corrosion

H314 Causes severe skin burns and eye damage.

GHS06 paramèt

H301 + H311 Toxic if swallowed or in contact with skin

res

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T; Toxic

R24/25-35: Toxic in contact with skin and if swallowed.

Causes severe burns.



F; Highly flammable

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS02, GHS05, GHS06
- · Signal word Danger
- · Hazard statements Causes severe skin burns and eye damage. Toxic if swallowed or in contact with skin

#### Precautionary statements

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire. P231 + P232 Handle under inert gas. Protect from moisture. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician. P370 + P378 In case of fire: Use dry sand, dry chemical or alcoholresistant foam for extinction. P422 Store contents under inert gas.



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+ Other hazards None

# 3 Composition/information on ingredients

- Chemical characterization: Mixtures Preparation
- **Description:** Trade secret (Reagent mixture)

Relevant phrases

H301 Toxic if swallowed.

H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H400 Very toxic to aquatic life.

R23/25 Toxic by inhalation and if swallowed.

R34 Causes burns.

R42/43 May cause sensitization by inhalation and skin contact.

R50 Very toxic to aquatic organisms.

### 4 First aid measures

- Description of first aid measures
- General information

Immediately remove any clothing soiled by the product

After inhalation

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

· After eye contact

Rinse out with plenty of water. Immediately call in ophthalmologist.

· After swallowing

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, Vomiting, Headache, CNS disorders Risk of corneal clouding.

The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation<(>,<)> spasms, CNS disorders, cardiovascular disorders. Risk of blindness!

Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

Combustible material

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire. May not get in touch with: Water

Caution! in contact with water product releases: Hydrogen

- Advice for firefighters
- · Protective equipment: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Prevent fire extinguishing water from contaminating surface water or the ground water system.



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#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions:

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

See Section 13 for disposal information

### 7 Handling and storage

- · Handling
- · Precautions for safe handling

Keep workplace dry. Do not allow product to come into contact with water.

- · Conditions for safe storage, including any incompatibilities Tightly closed. Dry. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.
- · Storage Not required.
- · **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment
- General protective and hygienic measures

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

**Protective** 

gloves.Les paramètres nécessaires sont manquants ou erronés.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.



According to Regulation (EC). No. 1907/2006/EC + amendment 453/2010/EC

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• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles.



· Body protection: lab coat

# 9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- · Appearance

Form: Granular White Colour

**Odour** No data available Odour threshold No data available No data available

 Melting point/freezing point > 300°C - dec · Initial boiling point & boiling range No data available

· Flash point No data available · Evapouration rate No data available · Flammability No data available

 Upper/lower flammability or explosive limits Lower explosion limit: 3,02% (V)

Product does not present an · Vapour pressure

explosion hazard. · Vapour density No data available · Relative density Not applicable

· Water solubility 55g/L at 25°C - soluble

· Partition coefficient: n-octanol/water No data available · Auto-ignition temperature No data available Decomposition temperature No data available · Viscosity No data available

No data available · Explosive properties Oxidizing properties No data available

· Bulk density 1,074kg/m3 at 20°C



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### 10 Stability and reactivity

- · Reactivity No data available
- · Chemical stability stable under recommended storage conditions
- · Possibility of hazardous reactions Reacts violently with water
- · Conditions to avoid Exposure to moisture
- Incompatible materials: Oxidizing agents, Chemically active metals, acids
- · Hazardous decomposition products: Reacts with water to form: Hydrogen gas. In the event of fire: see section 5

#### 11 Toxicological information

### Information on toxicological effects

#### · Acute toxicity:

Oral	LD50	162 mg/kg (Rat)
Dermal	LD50	230 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: Causes severe burns.
- · on the eye: Causes serious eye damage. Risk of blindness! Risk of corneal clouding
- · Sensitization: No sensitizing effects known.
- · Further information :

Decomposition of the substance with tissue moisture. After absorption:

CNS disorders, Headache Other information

The following applies to boron compounds in general: resorption is followed by nausea and vomiting, agitation<(>,<)> spasms, CNS disorders, cardiovascular disorders. Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

#### 12 Ecological information

- · Toxicity
- · Acquatic toxicity: Toxicity to fish.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- Biological effects:

Forms toxic mixtures in water, dilution measures notwithstanding.

Further information on ecology

Discharge into the environment must be avoided.



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### 13 Disposal considerations

- Waste treatment methods
- · Burn in a chemical incinerator equipped with an afterburner and scrubber but exert exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- Contaminated packaging:
- · Dispose of as unused product.

# 14 Transport information

· UN-Number Void · UN proper shipping name Void Transport hazard class(es) Void · Packing group Void · IMDG Void

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable. Not applicable. Transport in bulk according to

Annex II of MARPOL73/78 and

the IBC Code

Transport/Additional

information

Not dangerous according to the above specifications. This product is part of a kit. Information in this section refers to the kit as a whole.

· ADR/ AND / IMDG / IATA

No dangerous good in sense of this transport regulation. · Remarks:

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- GHS label elements

The product is classified and labelled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS02, GHS05, GHS06
- Signal word Danger
- Hazard-determining components of labelling:

SODIUM BOROHYDRIDE

· Hazard statements

Causes severe skin burns and eye damage.

• Occupational restrictions

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

- National regulations
- Storage class: 4.3
- · Chemical safety assessment: For this product a chemical safety assessment was not carried out.



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#### 16 Other information

This information is based 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

#### Relevant phrases

H260 In contact with water releases flammable gases which may ignite spontaneously. Toxic if swallowed. H301 H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. R15 Contact with water liberates extremely flammable gases. Toxic in contact with skin and if swallowed R24/25 R35 Causes severe burns.

· Department issuing MSDS: Safety Representative

· Contact: ImmuSmol