

### PRODUCT AND COMPANY INFORMATION

◆ **Product name: SELFMAG AMINO KIT**

◆ **Catalog number:**

SA10000	SelfMag Amino Kit
SA11000	SelfMag Amino nanoparticles (1mL)
SA12000	Buffers Kit A: Buffer A1: 15mL coupling - Buffer A2: 15 mL washing/storage - 100 mg EDC
SF40000	MagFectin (1 mL)
DM30000	MagID (magnetic device)
MF10000	Super Magnetic Plate

◆ **Chemical name or synonyms:**

◆ **Contact:**

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### KIT CONTENT AND CLASSIFICATION

#### Common Name

#### Classification

◆ SelfMag Amino nanoparticles	/
◆ SelfMag Amino Coupling Buffer (Buffer A1)	/
◆ SelfMag Amino Washing and Storage Buffer (Buffer A2)	/
◆ EDC	Xi
◆ MagFectin	/
◆ Super Magnetic Plate et MagID (magnetic device)	/

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** SelfMag Carboxy nanoparticles
- ◆ **Catalog number:** SA10000, SelfMag Amino Kit – SA11000, SelfMag Amino nanoparticles (1mL)
- ◆ **Chemical name or synonyms:** co-polymers / iron nanoparticles
- ◆ **Contact:**

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## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Description:** water suspension of copolymer nanoparticles with iron oxides

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	99.9 %	231-791-2	None
Poly(styrene-copolymers)		0.05 %		None
Iron oxides		0.05 %		None

No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directive 1999/45/EC-2001/59/EC (EU).

## SECTION 3 – HAZARDS IDENTIFICATION

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

## SECTION 4 – FIRST AID MEASURES

### ◆ Effects and symptoms:

- *Inhalation* Not available.
- *Ingestion* Slightly hazardous in case of ingestion.
- *Skin contact* Not available.
- *Eye contact* Slightly hazardous in case of eye contact.
- *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions.

### ◆ First-Aid measures:

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
- *Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- *Skin contact* In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- *Notes to physician* Not available.
- *Protection of first-aiders* Not available.

## SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Environmental precautions and clean-up methods:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
- ◆ **Small spill and leak:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- ◆ **Additional information:** No dangerous substances are released.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid breathing vapors or spray mists.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4 F)
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
- ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat and gloves.
  - **Respiratory:** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** emulsion.
  - **Color:** Brown.
  - **Odor:** Not available.
  - **Taste:** Not available.
- ◆ **Molecular weight:** Not available.
- ◆ **pH:** Between 4 and 11
- ◆ **Boiling point:** 100°C (212 F).
- ◆ **Decomposition temperature:** 100°C (212 F)
- ◆ **Melting point:** Not available.
- ◆ **Flash point:** Not available.
- ◆ **Dispersion properties:** In suspension in water.
- ◆ **Solubility:** Not available.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable at a pH between 4 and 11
- ◆ **Conditions to avoid:** pH < 4 and pH > 11, using temperatures < +2°C and > +96°C
- ◆ **Materials to avoid:** Strong acids, strong bases and pure organic solvents.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **LD50:** Not available.
  - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Carcinogenic effects: classified none. by NIOSH. By OSHA.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, of eye contact.

## SECTION 12 – ECOLOGICAL INFORMATION

- No data available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

- Waste stream:** Not available.
- Waste disposal method:** Contact a licensed professional waste disposal service to dispose of this material. Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- European waste catalogue (EWC):** Not available.
- Hazardous waste:** Will not occur.

## SECTION 14 – TRANSPORT INFORMATION

- This substance is considered to be non-hazardous for transport and air-transport.

## SECTION 15 – REGULATORY INFORMATION

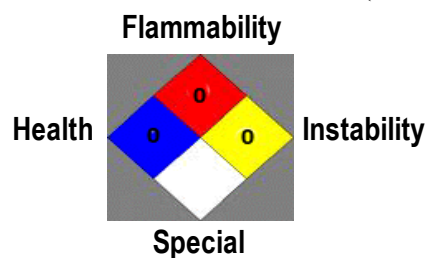
- This product is not classified according to the EU regulations.

## SECTION 16 – OTHER INFORMATION

- Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>0</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	

- National Fire Protection Association (U.S.A.):**



- Other Comments:**

To the best of our knowledge, the information contain herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Restriction of use:** for research use only.

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** SelfMag Amino Coupling Buffer
- ◆ **Catalog number:** SA10000, SelfMag Amino Kit – SA12000, Buffers Kit A: Buffer A1: 15mL coupling
- ◆ **Chemical name or synonyms:** Buffer A1

◆ **Contact:**

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## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Description:** Solution

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	> 99 %	231-791-2	None
Other ingredients		< 1 %		

Ingredients not listed here are not hazardous or their concentrations do not exceed the limit specified in 29 CFR 1910.1200 Hazard Communication Standard (USA) and the directive 1999/45/EC-2001/59/EC (EU).

## SECTION 3 – HAZARDS IDENTIFICATION

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

## SECTION 4 – FIRST AID MEASURES

◆ **Effects and symptoms:**

- *Inhalation* Not available.
- *Ingestion* Slightly hazardous in case of ingestion.
- *Skin contact* Not available.
- *Eye contact* Not available.
- *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions.

◆ **First-Aid measures:**

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
- *Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- *Skin contact* In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- *Notes to physician* Not available.
- *Protection of first-aiders* Not available.

## SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Environmental precautions and clean-up methods:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
- ◆ **Small spill and leak:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- ◆ **Additional information:** No dangerous substances are released.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid breathing vapors or spray mists.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4 F).
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
- ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat and gloves.
  - **Respiratory:** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** Solution.
  - **Color:** Clear.
  - **Odor:** Not available.
  - **Taste:** Not available.
- ◆ **Molecular Weight:** Not available.
- ◆ **Boiling point:** 100°C (212 F).
- ◆ **Melting point:** may start to solidify at -0.1°C (31.8 F) based on data for water.
- ◆ **Flash point:** Not available.
- ◆ **Specific gravity:** 1 (water = 1).
- ◆ **Vapor pressure:** 2.3 kPa (@20°C).
- ◆ **Vapor density:** 0.62 (Air =1).
- ◆ **Evaporation rate:** 0.36 (water) compared to butyl acetate.
- ◆ **Dispersion:** See solubility in water.
- ◆ **Solubility:** Fully miscible in cold water, hot water.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Not available.
- ◆ **Materials to avoid:** Not available.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **LD50:** Not available.
  - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Carcinogenic effects: classified none. by NIOSH.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, of inhalation.

## SECTION 12 – ECOLOGICAL INFORMATION

- Not hazardous for water.

## SECTION 13 – DISPOSAL CONSIDERATIONS

- Waste stream:** Not available.
- Waste disposal method:** Contact a licensed professional waste disposal service to dispose of this material. Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- European waste catalogue (EWC):** Not available.
- Hazardous waste:** Will not occur.

## SECTION 14 – TRANSPORT INFORMATION

- This substance is considered to be non-hazardous for transport and air-transport.

## SECTION 15 – REGULATORY INFORMATION

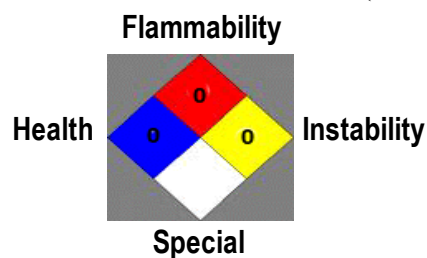
- This product is not classified according to the EU regulations.

## SECTION 16 – OTHER INFORMATION

- Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>0</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	

- National Fire Protection Association (U.S.A.):**



- Other Comments:**

To the best of our knowledge, the information contain herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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**Restriction of use:** for research use only.

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** SelfMag Carboxy Washing & Storage Buffer
- ◆ **Catalog number:** SA10000, SelfMag Amino Kit – SA12000, Buffers Kit A: Buffer A2: 15mL washing/storage
- ◆ **Chemical name or synonyms:** Buffer A2

- ◆ **Contact:**

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## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Description:** Solution

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	> 99 %	231-791-2	None
Other ingredients		< 1 %		

Ingredients not listed here are not hazardous or their concentrations do not exceed the limit specified in 29 CFR 1910.1200 Hazard Communication Standard (USA) and the directive 1999/45/EC-2001/59/EC (EU).

## SECTION 3 – HAZARDS IDENTIFICATION

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

## SECTION 4 – FIRST AID MEASURES

- ◆ **Effects and symptoms:**

- *Inhalation* Not available.
- *Ingestion* Slightly hazardous in case of ingestion.
- *Skin contact* Not available.
- *Eye contact* Not available.
- *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions.

- ◆ **First-Aid measures:**

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
- *Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- *Skin contact* In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- *Notes to physician* Not available.
- *Protection of first-aiders* Not available.

## SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Environmental precautions and clean-up methods:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
- ◆ **Small spill and leak:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- ◆ **Additional information:** No dangerous substances are released.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid breathing vapors or spray mists.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4 F).
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
- ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat and gloves.
  - **Respiratory:** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** Solution.
  - **Color:** Clear.
  - **Odor:** Not available.
  - **Taste:** Not available.
- ◆ **Molecular Weight:** Not available.
- ◆ **Boiling point:** 100°C (212 F).
- ◆ **Melting point:** may start to solidify at -0.1°C (31.8 F) based on data for water.
- ◆ **Flash point:** Not available.
- ◆ **Specific gravity:** 1 (water = 1).
- ◆ **Vapor pressure:** 2.3 kPa (@20°C).
- ◆ **Vapor density:** 0.62 (Air =1).
- ◆ **Evaporation rate:** 0.36 (water) compared to butyl acetate.
- ◆ **Dispersion:** See solubility in water.
- ◆ **Solubility:** Fully miscible in cold water, hot water.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Not available.
- ◆ **Materials to avoid:** Not available.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **LD50:** Not available.
  - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Carcinogenic effects: classified none. by NIOSH.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, of inhalation.

**SECTION 12 – ECOLOGICAL INFORMATION**

- Not hazardous for water.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

- Waste stream:** Not available.
- Waste disposal method:** Contact a licensed professional waste disposal service to dispose of this material. Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- European waste catalogue (EWC):** Not available.
- Hazardous waste:** Will not occur.

**SECTION 14 – TRANSPORT INFORMATION**

- This substance is considered to be non-hazardous for transport and air-transport.

**SECTION 15 – REGULATORY INFORMATION**

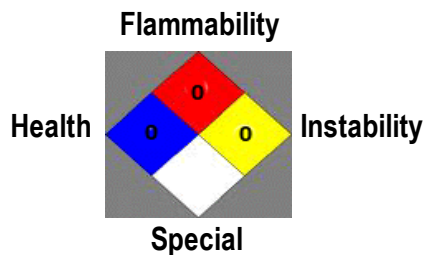
- This product is not classified according to the EU regulations.

**SECTION 16 – OTHER INFORMATION**

- Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>0</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	

- National Fire Protection Association (U.S.A.):**



- Other Comments:**

To the best of our knowledge, the information contain herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Restriction of use:** for research use only.

SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** EDC (1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride)
- ◆ **Catalog number:** SA10000, SelfMag Carboxy Kit – SA12000, Buffers Kit C: EDC 100 mg
- ◆ **Chemical name or synonyms:** 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride; EDAC; EDC hydrochloride; WSC hydrochloride; 1,3-Propanediamine, N<sup>2</sup>-(ethylcarbonimidoyl)-N,N-dimethyl-, monohydrochloride (9CI).

◆ **Contact:**

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SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Substance/preparation:** Substance

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EC number</u>	<u>Classification</u>
EDC (1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride)	25952-53-8	98-100	247-361-2	Xi ; R37/38, 41

SECTION 3 – HAZARDS IDENTIFICATION



**Xi – Irritant**

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

XI - IRRITANT

SECTION 4 – FIRST AID MEASURES

◆ **Notice to reader:**

**Get immediate medical attention.**

◆ **Effects and symptoms:**

- *Inhalation*
- *Ingestion*
- *Skin contact*
- *Eye contact*
- *Aggravating conditions*

Hazardous in case of inhalation (lung irritant).  
Not available.  
Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or occasionally, blistering.  
Extremely hazardous in case of eye contact (irritant). Inflammation is characterized by redness, watering, and itching.  
Repeated or prolonged exposure is not known to aggravate medical conditions.

◆ **First-Aid measures:**

- *Inhalation*
- *Ingestion*
- *Skin contact*
- *Eye contact*
- *Notes to physician*
- *Protection of first-aiders*

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.  
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.  
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.  
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.  
Not available.  
Not available.

## SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Point:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not available.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>), halogenated compounds, hydrogen chloride.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
- ◆ **Environmental precautions and clean-up methods:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
- ◆ **Small spill and leak:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid contact with eyes, skin and clothes. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
  - ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat and gloves.
  - **Respiratory:** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** solid.
  - **Color:** White.
  - **Odor:** Odorless.
  - **Taste:** Not available.
- ◆ **Molecular weight:** 191.7 g/mole.
- ◆ **Molecular formula:** C<sub>18</sub>H<sub>18</sub>ClN<sub>3</sub>
- ◆ **Melting/freezing point:** 110 to 115°C (230 to 239 F).
- ◆ **Vapor pressure:** < 0.1333 kPa (< 1 mm Hg) (at 20°C).
- ◆ **Vapor density:** > 1 (Air = 1).
- ◆ **Solubility:** Soluble in cold water, hot water, methanol, diethyl ether.
- ◆ **Dispersion properties:** See solubility in water, methanol, diethyl ether.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Not available.
- ◆ **Materials to avoid:** Reactive with strong oxidizing agents, acids, moisture.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** These products are halogenated compounds, hydrogen chloride.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **IVN-MUS LD50:** 56 mg / kg
- ◆ **Primary irritant effect and sensitisation:**  
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
  - **Inhalation:** Irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
  - **Ingestion:** May be harmful if swallowed.
  - **Skin:** Irritate the skin. May be harmful if absorbed through the skin.
  - **Eyes:** Causes severe eye irritation.

## SECTION 12 – ECOLOGICAL INFORMATION

- ◆ No data available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

- ◆ **Waste stream:** Not available.
- ◆ **Waste disposal method:** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority.
- ◆ **European waste catalogue (EWC):** Not available.
- ◆ **Hazardous waste:** The classification of the product may meet the criteria for a hazardous waste.

## SECTION 14 – TRANSPORT INFORMATION

- ◆ Contact the supplier for all information regarding the proper transportation method for this material.

## SECTION 15 – REGULATORY INFORMATION

- ◆ Regulatory references:
  - *Material Safety Data Sheet:* according to the Directive 2001/58/CE.
  - *Classification, labeling:* according to the Directive 2001/59/CE.
- ◆ R37/38 – Irritating to respiratory system and skin.  
R41 – Risk of serious damage to eyes.
- ◆ S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

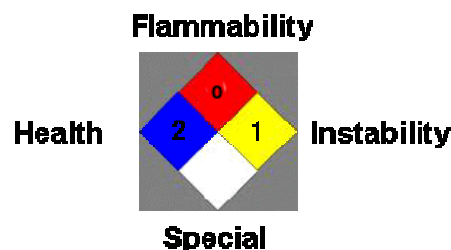


## SECTION 16 – OTHER INFORMATION

- ◆ **Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>2</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal protection</b>	<b>C</b>

- ◆ **National Fire Protection Association (U.S.A.):**



- ◆ **Other Comments:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Restriction of use:** for research use only.

**SECTION 1 - PRODUCT AND COMPANY INFORMATION**

- ◆ **Product name:** MagFectin
- ◆ **Catalog number:** SF40000, MagFectin (1 mL)
- ◆ **Chemical name or synonyms:**
- ◆ **Contact:**

OZ Biosciences  
Parc Scientifique de Luminy  
BP13  
13273 Marseille cedex 9, France

Phone: +33 (0)4.91.82.81.75 / Fax: +33 (0)4.91.82.81.70 / [www.ozbiosciences.com](http://www.ozbiosciences.com) / [contact@ozbiosciences.com](mailto:contact@ozbiosciences.com)

**SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS**

**Description:** Solution

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	> 99 %	231-791-2	None
Other ingredients		< 1 %		

Ingredients not listed here are not hazardous or their concentrations do not exceed the limit specified in 29 CFR 1910.1200 Hazard Communication Standard (USA) and the directive 1999/45/EC-2001/59/EC (EU).

**SECTION 3 – HAZARDS IDENTIFICATION**

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

**SECTION 4 – FIRST AID MEASURES**

◆ **Effects and symptoms:**

- *Inhalation* Not available.
- *Ingestion* Slightly hazardous in case of ingestion.
- *Skin contact* Not available.
- *Eye contact* Not available.
- *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions.

◆ **First-Aid measures:**

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
- *Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- *Skin contact* In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
- *Notes to physician* Not available.
- *Protection of first-aiders* Not available.

**SECTION 5 – FIRE FIGHTING MEASURES**

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Environmental precautions and clean-up methods:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.
- ◆ **Small spill and leak:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
- ◆ **Additional information:** No dangerous substances are released.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid breathing vapors or spray mists.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 2 to 8°C (35.6 to 46.4 F).
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.
- ◆ **Packaging materials**
- ◆ **Suitable:** Use original container.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

- ◆ **Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- ◆ **Personal protection**
  - **Eyes:** Safety glasses.
  - **Body:** Lab coat and gloves.
  - **Respiratory:** Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** Solution.
  - **Color:** Clear.
  - **Odor:** Not available.
  - **Taste:** Not available.
- ◆ **Molecular Weight:** Not available.
- ◆ **Boiling point:** 100°C (212 F).
- ◆ **Melting point:** may start to solidify at -0.1°C (31.8 F) based on data for water.
- ◆ **Flash point:** Not available.
- ◆ **Specific gravity:** 1 (water = 1).
- ◆ **Vapor pressure:** 2.3 kPa (@20°C).
- ◆ **Vapor density:** 0.62 (Air =1)
- ◆ **Evaporation rate:** 0.36 (water) compared to butyl acetate.
- ◆ **Dispersion:** See solubility in water.
- ◆ **Solubility:** Fully miscible in cold water, hot water.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Not available.
- ◆ **Materials to avoid:** Not available.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
  - **LD50:** Not available.
  - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Carcinogenic effects: classified none. by NIOSH.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, of inhalation.

**SECTION 12 – ECOLOGICAL INFORMATION**

- Not hazardous for water.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

- Waste stream:** Not available.
- Waste disposal method:** Contact a licensed professional waste disposal service to dispose of this material. Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- European waste catalogue (EWC):** Not available.
- Hazardous waste:** Will not occur.

**SECTION 14 – TRANSPORT INFORMATION**

- This substance is considered to be non-hazardous for transport and air-transport.

**SECTION 15 – REGULATORY INFORMATION**

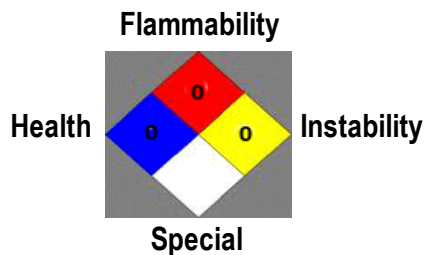
- This product is not classified according to the EU regulations.

**SECTION 16 – OTHER INFORMATION**

- Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>0</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	

- National Fire Protection Association (U.S.A.):**



- Other Comments:**

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**Restriction of use:** for research use only.

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name: Super Magnetic Plate and MagID**
- ◆ **Catalog number:** DM30000, MagID (magnetic device) - MF10000, Super Magnetic Plate
- ◆ **Chemical name or synonyms:**
- ◆ **Contact:**

OZ Biosciences  
Parc Scientifique de Luminy  
BP13  
13273 Marseille cedex 9, France

Phone: +33 (0)4.91.82.81.75 / Fax: +33 (0)4.91.82.81.70 / [www.ozbiosciences.com](http://www.ozbiosciences.com) / [contact@ozbiosciences.com](mailto:contact@ozbiosciences.com)

## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

**Description:** Magnetic Apparatus

## SECTION 3 – HAZARDS IDENTIFICATION

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

## SECTION 4 – FIRST AID MEASURES

- ◆ **Effects and symptoms:**
  - *Inhalation* Not applicable.
  - *Ingestion* Not applicable.
  - *Skin contact* Not available.
  - *Eye contact* Not available.
  - *Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical conditions.

**Magnetic Devices:** peoples with cardiac pacemaker should not work with this magnet. Danger of injury by strong magnetic attraction.

- ◆ **Medical Conditions Aggravated by Exposure:**

**Magnetic plate:** Do not approach the plate to peoples having a cardiac pacemaker.

## SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Points:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not applicable
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Not available.
- ◆ **Unusual Fire and Explosion Hazards** Emit toxic fumes under fire conditions, but product does not present an explosion hazard.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Additional information:** No dangerous substances are released.

## SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid direct contact with other magnetic materials and devices. Keep away from electronic and informatics apparatus. Keep away from storage devices such as hard disks, ID and credit cards; otherwise stored data may be deleted.
- ◆ **Storage:** Keep device in a dry environment.
- ◆ **Intended use:** Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific application.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
  - **Physical State:** Solid.
  - **Color:** Ivory or Blue & White.
  - **Odor:** Odorless product.
  - **Taste:** Not available.

## SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable.
- ◆ **Conditions to avoid:** Excess heat and flame.
- ◆ **Materials to avoid:** Electronic, computer materials.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Not available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

- ◆ **Waste stream:** Not available.
- ◆ **Waste disposal method:** Dispose in accordance with governmental environmental regulations. Observe all federal, state, and local environmental regulations.
- ◆ **Hazardous waste:** Will not occur.

## SECTION 14 – TRANSPORT INFORMATION

- ◆ This substance is considered to be non-hazardous for transport and air-transport.

## SECTION 15 – REGULATORY INFORMATION

- ◆ This product is not classified according to the EU regulations.

## SECTION 16 – OTHER INFORMATION

### ◆ **Other Comments:**

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