



MATERIAL SAFETY DATA SHEET

PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** Magnetofectamine
- ◆ **Catalog number:** MTX0750, MTX1000.
- ◆ **Chemical name or synonym:** none
- ◆ **Contact:**

OZ Biosciences
Parc Scientifique de Luminy – Zone Luminy Entreprises
163 Avenue de Luminy – Case 922
13288 Marseille cedex 9, France

Phone: +33 (0)4.86.94.85.16 / Fax: +33 (0)4.86.94.85.15 / www.ozbiosciences.com / contact@ozbiosciences.com

KIT CONTENT AND CLASSIFICATION

Common Name

- ◆ CombiMag
- ◆ Lipofectamine 2000 TM

Classification

/

MSDS: COMBIMAG

SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** CombiMag
- ◆ **Catalog number:** CM20025, CM20100, CM20200, CM21000
- ◆ **Chemical name or synonyms:** none
- ◆ **Contact:**

OZ Biosciences
 Parc Scientifique de Luminy – Zone Luminy Entreprises
 163 Avenue de Luminy – Case 922
 13288 Marseille cedex 9, France
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SECTION 2 – HAZARDS IDENTIFICATION

◆ **GHS Classification**

No

◆ **GHS Label element**

Signal Word:	None
Hazard Statements:	None
Pictograms:	None

- ◆ 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 3 – COMPOSITION, INFORMATION ON INGREDIENTS

Description: water suspension of nanoparticles with iron oxide.

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	99.8 - 99.9 %	231-791-2	None
Synthetic polymers		<0.05 %		None
Iron oxides		<0.05 %		None
Other ingredients		<0.1 %		None

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

SECTION 4 – FIRST AID MEASURES

◆ **Effects and symptoms:**

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

◆ **First-Aid measures:**

- | | |
|-------------------------------------|--|
| ○ <i>Inhalation</i> | If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| ○ <i>Ingestion</i> | 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. |
| ○ <i>Skin contact</i> | 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. |
| ○ <i>Eye contact</i> | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. |
| ○ <i>Notes to physician</i> | Not available. |
| ○ <i>Protection of first-aiders</i> | 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 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

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

D.O.T.: Not regulated.

IATA.: Not regulated.

IMDG: Not regulated.

SECTION 15 – REGULATORY INFORMATION

- ◆ **US Federal Regulations**

RCRA (Lists of Hazardous Wastes, 40 CFR 261 Subpart D): Not applicable

CLEAN AIR ACT (SEC. 112. Hazardous Air Pollutants): Not applicable

CLEAN WATER ACT (RQ, 40 CFR): Not applicable

SARA Title III:

Section 302 -304, 40 CFR 355: Components present in this product at a level which could require reporting are: none.

Section 311 - 312: Components present in this product at a level which could require reporting are: none.

Section 313: Not applicable

TSCA Section 8(b) Inventory Status: All ingredients are listed on TSCA Inventory of Chemical Substances or exempt from TSCA Inventory requirements.

AICS Inventory Status: All ingredients are listed on the Australia Inventory of Chemical Substances.

State Lists

This product does not contain any Proposition 65 chemicals.

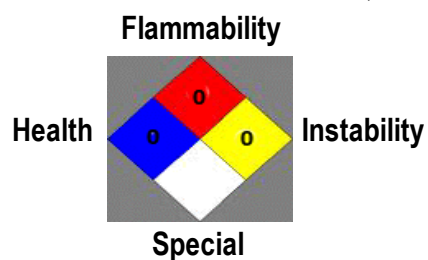
- ◆ This product is not classified according to the EU regulations.

SECTION 16 – OTHER INFORMATION

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

Health	0
Fire hazard	0
Reactivity	0
Personal protection	

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



◆ Revisions:

Issue Date: 22-May-2014

Last Revision Date: 23-Aug-2016

Revision note: New format. updated Section 2,8,15,16.

◆ 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.



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** Lipofectamine 2000™
- ◆ **Chemical name or synonyms:** none

SECTION 2 – HAZARDS IDENTIFICATION

- ◆ **GHS Classification**
No
- ◆ **GHS Label element**

Signal Word:	None
Hazard Statements:	None
Pictograms:	None
- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **May cause skin irritation and/or dermatitis.**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

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

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

SECTION 4 – FIRST AID MEASURES

- ◆ **Health Effects:**
Adverse health effects are not expected from the recommended use of this product. Some people may be allergic to the material. Symptoms of exposure may include: fatigue, coughing, weight loss and shortness of breath.
- ◆ **Primary Routes of Entry:** Skin or eye contact from splashes
- ◆ **Medical Conditions Aggravated by Exposure:** not known
- ◆ **Emergency First Aid Procedures:**
 - **Skin contact-** Flush contaminated areas with large volume of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if the skin remains irritated.
 - **Eye contact-** Flush contaminated eye(s) with large volume of water for at least 15 minutes. Get medical attention if eye(s) remain irritated.
 - **Ingestion-** No adverse effects are reasonably anticipated. If any symptoms occur, keep victim warm and calm and get medical attention immediately.
 - **Inhalation-** Move victim to fresh air. If breathing becomes difficult, seek medical assistance immediately.
- ◆ **First-Aid measures:**

○ <i>Inhalation</i>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.
○ <i>Ingestion</i>	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.
○ <i>Skin contact</i>	In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothes before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
○ <i>Eye contact</i>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
○ <i>Notes to physician</i>	Not available.
○ <i>Protection of first-aiders</i>	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 considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use dry chemical, CO₂, water spray or foam.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Burning produces irritant fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- ◆ **Personal precautions:** Safety glasses, lab coat and gloves.
- ◆ **Environmental precautions and clean-up methods:** Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid breathing vapors or spray mists. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
- ◆ **Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at +4°C.
- ◆ **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 and odor information:** Colorless liquid, odorless.
- ◆ **Boiling point:** 100°C (212°F)
- ◆ **Flash Point:** > 200°C
- ◆ **Lower Explosion Limit (% by volume):** N/A
- ◆ **Upper Explosion Limit (% by volume):** N/A
- ◆ **Vapour pressure at 20°C:** N/A
- ◆ **Vapour density:** N/A
- ◆ **Solubility in water:** fully miscible
- ◆ **Specific Gravity (water = 1):** N/A
- ◆ **Percent volatile by volume:** N/A
- ◆ **Evaporation Rate:** N/A

SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** The product is stable under recommended storage conditions.
- ◆ **Conditions to avoid:** Exposure to light, air or moisture over prolonged periods.
- ◆ **Materials to avoid:** Strong acids, strong bases, strong oxidizing agents.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

- ◆ **Toxicity on animals:**
 - **LD50:** Not available.
 - **LC50:** Not available.
- ◆ **Chronic effects on humans:** Chronic exposure may causes nausea and vomiting. Higher exposure may causes unconsciousness.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, skin or 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.
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SECTION 15 – OTHER INFORMATION

◆ US Federal Regulations

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CLEAN AIR ACT (SEC. 112. Hazardous Air Pollutants): Not applicable

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SARA Title III:

Section 302 -304, 40 CFR 355: Components present in this product at a level which could require reporting are: none.

Section 311 - 312: Components present in this product at a level which could require reporting are: none.

Section 313: Not applicable

TSCA Section 8(b) Inventory Status: All ingredients are listed on TSCA Inventory of Chemical Substances or exempt from TSCA Inventory requirements.

AICS Inventory Status: All ingredients are listed on the Australia Inventory of Chemical Substances.

State Lists

This product does not contain any Proposition 65 chemicals.

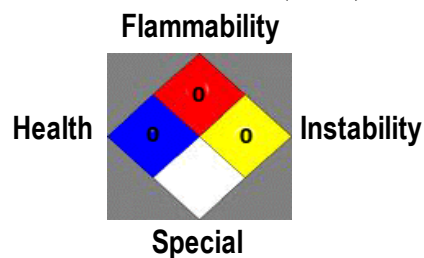
- ◆ This product is not classified according to the EU regulations.

SECTION 16– OTHER INFORMATION

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

Health	0
Fire hazard	0
Reactivity	0
Personal protection	

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



0 = not significant
1 = slight
2 = moderate

3 = high
4 = extreme
* = chronic

◆ Revisions:

Issue Date: 22-May-2014

Last Revision Date: 24-Aug-2016

Revision note: New format. updated Section 2,8,15,16.

◆ Other Comments:

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