

**KIT MATERIAL SAFETY DATA SHEET****PRODUCT AND COMPANY INFORMATION**

◆ **Product name:** Calcium Phosphate Transfection Kit

◆ **Catalog number:** CP900000

◆ **Chemical name or synonyms:**

◆ **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**

- ◆ 2.5 M Calcium Chloride Solution
- ◆ 1X Hepes Buffered Saline (HBS)

Classification

Xi, R-36

/

SECTION 1 - PRODUCT AND COMPANY INFORMATION

◆ **Product name:** 2.5 M Calcium Chloride Solution

◆ **Contact:**

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SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram:

Signal word:

Warning

Hazard statement(s)

H319

Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or high

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

Description: Aqueous solution of Calcium Chloride (2.5 M)

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	70-75 %	231-791-2	None
Calcium Chloride	10043-52-4	25-30 %	233-140-8	H319

SECTION 4 – FIRST AID MEASURES

◆ 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 immediately.
- *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 if irritation develops or persists.
- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes retracting eyelids often. Get medical attention immediately.
- *Notes to physician* Treat symptomatically.
- *Protection of first-aiders* Not available.

SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flash Point:** Not available.
- ◆ **Flammability of the product:** Product itself is not combustible.
- ◆ **Fire hazards in presence of various substances:** Emits toxic fumes under fire conditions.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable for surrounding fires.
- ◆ **Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
- ◆ **Hazardous thermal decomposition products:** Includes carbon dioxide, carbon monoxide, dense smoke.

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.

SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
- ◆ **Storage:** Keep container tightly closed at -20°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:** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
 - **Physical State:** Liquid.
 - **Color:** Clear, colorless.
 - **Odor:** Odorless.
 - **Taste:** Not available.
- ◆ **Molecular weight:** Not available.
- ◆ **pH:** 7.0
- ◆ **Boiling point:** 100°C (212 F).
- ◆ **Melting point:** 0°C (32 F).
- ◆ **Flash point:** Not available.
- ◆ **Decomposition temperature:** Not available.
- ◆ **Solubility:** fully miscible in water.

SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** Stable under normal conditions of use and storage.
- ◆ **Conditions to avoid:** Moisture, metals.
- ◆ **Hazardous polymerization:** Will not occur.
- ◆ **Hazardous decomposition products:** Hydrogen chloride, chlorine containing gases.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects**Acute toxicity**

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

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

UN number

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

No data available

SECTION 15 – REGULATORY INFORMATION

OSHA REGULATORY STATUS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

Not regulated.

SARA EHS Chemical (40 CFR 355.30)

Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):

Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

NATIONAL INVENTORY STATUS

TSCA 12(b): This product is not subject to export notification.**Canadian Chemical Inventory:** All components of this product are listed on either the DSL or the NDSL.

Component	DSL	NDSL
Calcium chloride 10043-52-4	Listed	Not Listed
Potassium Chloride 7447-40-7	Listed	Not Listed
Sodium Chloride 7647-14-5	Listed	Not Listed

STATE REGULATIONS

California Proposition 65:

This product is not listed, but it may contain impurities/trace elements known to the State of California to cause

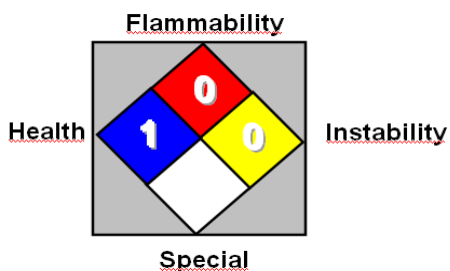
cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. WARNING: This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate, a chemical known to the State of California to cause cancer.

SECTION 16 – OTHER INFORMATION

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

Health	1
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:**

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:** 1X Hepes Buffered Saline (HBS)

◆ **Contact:**

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SECTION 3 – 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**

◆ **Effects and symptoms:**

- *Inhalation* No toxicity expected from inhalation.
- *Ingestion* Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.
- *Skin contact* Can cause skin irritation.
- *Eye contact* May cause irritation of the eye.

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

Description: 1 X Hepes Buffered Saline solution

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	> 97 %	231-791-2	None
HEPES Free Acid	7365-45-9	0.5 %	230-907-9	None
Glucose	50-99-7	0.5 – 1 %	200-075-1	None
Sodium Chloride	7647-14-5	0.5 – 1 %	231-598-3	None
Potassium Chloride	7447-40-7	0.01 – 0.05 %	231-211-8	None
Di-Sodium Hydrogen Phosphate Dihydrate	10028-24-7	0.01 %	231-448-7	None

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

SECTION 4 – FIRST AID MEASURES

◆ **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* Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. 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 develop.
- *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 if symptoms develop (redness, itching...).

- *Eye contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes retracting eyelids often. Get medical attention if symptoms develop (redness, itching...).
- *Notes to physician* Treat symptomatically.
- *Protection of first-aiders* Not available.

SECTION 5 – FIRE FIGHTING MEASURES

- ◆ **Flash Point:** Not available.
- ◆ **Flammability of the product:** Product itself is not combustible.
- ◆ **Fire hazards in presence of various substances:** Emits toxic fumes under fire conditions.
- ◆ **Fire fighting media and instructions:** Use an extinguish agent suitable (water spray, carbon dioxide, dry chemical powder, or appropriate foam) for surrounding fires.
- ◆ **Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
- ◆ **Hazardous thermal decomposition products:** Includes carbon dioxide, carbon monoxide, dense smoke.

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.

SECTION 7 – HANDLING AND STORAGE

- ◆ **Handling:** Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
- ◆ **Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place
- ◆ **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**
 - Eye/face protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
 - Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
 - Body Protection**
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 - Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
 - Control of environmental exposure**
Do not let product enter drains

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Appearance**
 - **Physical State:** Liquid.
 - **Color:** Clear, colorless.
 - **Odor:** Odorless.

- **Taste:** Not available.
- ◆ **Molecular weight:** Not available.
- ◆ **pH:** 6.0
- ◆ **Boiling point:** Not available
- ◆ **Melting point:** Not available
- ◆ **Flash point:** Not available.
- ◆ **Decomposition temperature:** Not available.
- ◆ **Density:** 1.07
- ◆ **Solubility:** fully miscible in water.

SECTION 10 – STABILITY AND REACTIVITY

- ◆ **Stability and reactivity:** Stable under normal conditions of use and storage.
- ◆ **Conditions to avoid:** Strong oxidizing agents.
- ◆ **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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ◆ **Other toxic effects on humans:** Slightly hazardous in case of ingestion, of eye contact.

SECTION 12 – ECOLOGICAL INFORMATION

- ◆ **Ecotoxicological information:** Not available.
- ◆ **Environment fate:** Bioconcentration is not expected to occur.

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.

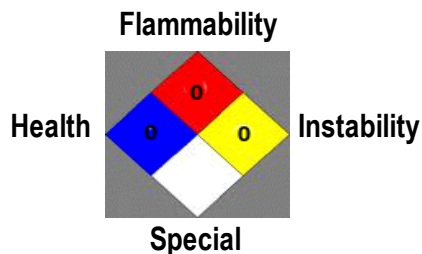
SECTION 16 – OTHER INFORMATION

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◆ 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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