



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

**Product name:** CaliVax-DOTAP adjuvant

**Catalog number:** CV02000

**Contact:**

OZ Biosciences  
 Parc Scientifique de Luminy – Zone Luminy Entreprises  
 163 Avenue de Luminy – Case 922  
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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): **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

**Description:** Aqueous solution of synthetic molecule.

<u>Ingredient name</u>	<u>CAS number</u>	<u>%</u>	<u>EINECS</u>	<u>Classification</u>
Water	7732-18-5	>90%	231-791-2	None
N-[1-(2,3-dioleoyloxy)propyl]-N,N,N-Trimethylammonium Chloride	132172-61-3	<5 %		None
Cholesterol	57-88-5	<5%		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:**

- *Inhalation* If inhaled, remove to fresh air. If breathing is difficult, give oxygen. 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 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 Point:** Not available.  
**Fire hazards in presence of various substances:** Not considered to be flammable.  
**Fire fighting media and instructions:** Use dry chemical, CO<sub>2</sub>, 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)  
**ph=7**  
**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

**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 the IARC.

**OHSA:** 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 the OHSA.

**ACGIH:** 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 the ACGIH.

**EPA:** 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 the EPA.

**ACUTE TOXICITY** No data available

**Irritation and Corrosion** No data available

### ROUTE OF EXPOSURE

**Skin Contact:** May cause skin irritation

**Skin Absorption:** May be harmful if absorbed through the skin

**Eye Contact:** May cause eye irritation

**Inhalation:** Materials may be irritating to mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed

### SIGNS AND SYMPTOMS OF EXPOSURE

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

## SECTION 12 – ECOLOGICAL INFORMATION

Elimination information (persistence and degradability) N/A

Ecotoxicity effects N/A

Further information on ecology N/A

## 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 – OTHER INFORMATION

**OSHA HAZARDS** No known OSHA hazards

**SARA 302 COMPONENTS** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 COMPONENTS** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**SARA 311/312 HAZARDS** No SARA hazards

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS** This product does not contain any chemicals known to the state of MA to cause cancer, birth, or other reproductive defects.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS**

	CAS-No.	Revision Date
DOTAP chloride	132172-61-3	
Cholesterol	57-88-5	
Water	7732-18-5	

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

	CAS-No.	Revision Date
DOTAP chloride	132172-61-3	
Cholesterol	57-88-5	
Water	7732-18-5	

**CALIFORNIA PROP. 65 COMPONENTS** This product does not contain any chemicals known to the state of CA to cause cancer, birth, or other reproductive defects.

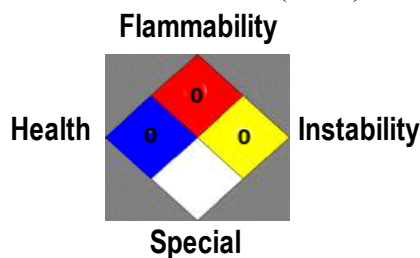
This product is not classified according to the EU regulations.

**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.):**



0 = not significant                      3 = high  
 1 = slight                                4 = extreme  
 2 = moderate                            \* = chronic

◆ **Revisions:**

Issue Date: 28-Aug-2020  
 Last Revision Date: 28-Aug-2020  
 Revision note: N/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.