

## KIT MATERIAL SAFETY DATA SHEET

## PRODUCT AND COMPANY INFORMATION

## ◆ Product name: Nitric Oxide Detection Kit



◆ Catalog number: NOS0500

◆ 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  
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## KIT CONTENT AND CLASSIFICATION

**Common Name**

- ◆ 25 mL Reagent 1 (sulf)
- ◆ 25 mL Reagent 2 (NED)
- ◆ 1 mL Nitrite Standard

**Classification***GHS05 Corrosion*

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## MSDS: REAGENT 1 (SULF)

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

- ◆ **Product name:** 25 mL Reagent 1 (Sulf)
- ◆ **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

#### · Classification of the substance or mixture:



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage

#### **Label elements**

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

#### **Hazard pictograms**



GHS05 Corrosion

#### · Signal word

DANGER

#### · Hazard-determining components of labeling:

Orthophosphoric Acid

#### · Hazard statements

Causes serious eye damage.

*Wear eye protection / face protection.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*Immediately call a poison center/doctor.*

#### **Classification system:**

**NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):** Highly Toxic

**Primary route(s) of entry:** Oral

**Target Organ(s):** Not applicable or unknown

#### **Other hazards**

*This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.*

#### **Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable

## SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures****Description:**

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as a OZ Biosciences. trade secret.

<u>Hazardous component</u>	<u>CAS number</u>	<u>Content</u>	<u>EINECS</u>	<u>Classification</u>
<u>Orthophosphoric acid</u>	<u>7664-38-2</u>	<u>5-10%</u>	<u>231-633-2</u>	<u>Met. Corr. 1; Skin Corr. 1B; H290, H314</u>

**Additional information:** For the wording of the listed risk phrases refer to section 15.

## SECTION 4 – FIRST AID MEASURES

**Description of first aid measures**

**After inhalation:** If the patient feels unwell or is concerned, obtain medical advice.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If the patient feels unwell or is concerned, obtain medical advice.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** Dizziness

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## SECTION 5 – FIRE FIGHTING MEASURES

**Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture** None known

**Advice for firefighters** No special advice

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Remove persons from danger area.

Wear protective clothing.

**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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling** No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** The product is not flammable.

**Conditions for safe storage, including any incompatibilities**

**Storage:** Store at +4°C, protect from light

**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:** None.

**Specific end use(s)** No further relevant information available.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

### **Control parameters**

**Components with limit values that require monitoring at the workplace:**

#### **7664-38-2 Orthophosphoric acid**

PEL Long-term value: 1 mg/m<sup>3</sup>

REL Short-term value: 3 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

TLV Short-term value: 3 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

**Additional information:** The lists that were valid during the creation were used as basis

#### **Ventilation Data:**

Provide adequate general exhaust ventilation.

#### **Respiratory Protection:**

None required if ventilation is adequate.

#### **Protective Gloves:**

Rubber or chemical resistant gloves should be worn.

#### **Other Protective Equipment:**

Safety glasses with side shields are advised. Eye wash stations and deluge showers should also be available. Finally, a lab coat should be worn.

#### **Other Engineering Controls:**

None

#### **Work Practices:**

Good laboratory technique should be used when handling this product. Do not mouth pipette. Observe appropriate chemical hygiene. Avoid contact with skin or eyes.

#### **Hygienic Practices:**

Do not eat, drink, or smoke while working with reagents. Upon completion of work activities involving this product, wash any exposed body areas thoroughly with soap and water.

#### **• Exposure controls**

#### **• Personal protective equipment:**

#### **• General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. 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. •

#### **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### **• Protection of hands:**

#### **Protective gloves**

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. •

#### **Penetration time of glove material**

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

#### **Eye protection:**

Tightly sealed goggles

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****General Information****Appearance:****Form:** Fluid**Color:** Colorless**Odor:** Not determined**Odor threshold:** Not determined.**pH-value at 20 °C (68 °F):** 1**Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** 100 °C (212 °F)**Flash point:** Not applicable.**Flammability (solid, gaseous):** Not applicable.**Decomposition temperature:** Not determined.**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Vapor pressure:** Not determined.**Density at 20 °C (68 °F):** 1.04362 g/cm<sup>3</sup> (8.70901 lbs/gal)**Relative density** Not determined.**Vapor density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with****Water:** Fully miscible.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.**Water:** 94.9 %**VOC content:** 0.00 %**Solids content:** 0.2 %**Other information** No further relevant information available.

## SECTION 10 – STABILITY AND REACTIVITY

**Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known..

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:** No data available**Primary irritant effect:****on the skin:** No irritant effect.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

**NTP (National Toxicology Program)**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Aquatic toxicity:** Not harmful to the aquatic environment

**Persistence and degradability** Not available

**Behavior in environmental systems:**

**Bioaccumulative potential** Not known

**Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Not available

**Additional ecological information:**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14 – TRANSPORT INFORMATION**

**UN-Number** Not hazardous for transportation

**DOT, ADR, ADN, IMDG, IATA** Void

**UN proper shipping name**

**DOT, ADR, ADN, IMDG, IATA** Void

**Transport hazard class(es)**

**DOT, ADR, ADN, IMDG, IATA**

**Class** Void

**Packing group**

**DOT, ADR, IMDG, IATA** Void

**Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user** Not applicable.

**Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code** Not applicable.

**SECTION 15 – REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Sara**

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

7664-38-2 phosphoric acid

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Signal word** Danger

**Hazard-determining components of labeling:**

phosphoric acid

**Hazard statements**

Causes serious eye damage.

**Precautionary statements**

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Signal word** Danger

**Hazard-determining components of labeling:**

phosphoric acid

**Hazard statements**

Causes serious eye damage.

**Precautionary statements**

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

**Massachusetts Right To Know Components**

Phosphoric acid	CAS-No. 7732-18-5	Revision Date 1993-04-24
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**Pennsylvania Right To Know Components**

Water	CAS-No. 7732-18-5	Revision Date
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Phosphoric acid	CAS-No. 7732-18-5	Revision Date 1993-04-24
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**New Jersey Right To Know Components**

Water	CAS-No. 7732-18-5	Revision Date
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Phosphoric acid	CAS-No. 7732-18-5	Revision Date 1993-04-24
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16 – OTHER INFORMATION**◆ **Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>3</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	<b>E</b>

◆ **Revisions:**

Issue Date: 25-Feb-2019

Last Revision Date: 14-Mar-2019

Revision note: New format. updated Section 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.





## REAGENT 2 (NED)

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

◆ **Product name:** 25 mL Reagent 2 (NED)

◆ **Contact:**

OZ Biosciences  
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 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](http://www.ozbiosciences.com) / [contact@ozbiosciences.com](mailto:contact@ozbiosciences.com)

### 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:**

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

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

#### **Description:**

*The product is a mixture of unlisted nonhazardous substances.*

*The exact concentration percentages of substances may be withheld as a OZ Biosciences trade secret.*

**Dangerous components:** Void

**Additional information:** For the wording of the listed risk phrases refer to section 15.

### 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

**Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture** None known

**Advice for firefighters** No special advice

**Protective equipment:** No special measures required.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Handling:** Protect from light exposure

**Precautions for safe handling** No special measures required.

**Information about protection against explosions and fires:** The product is not flammable.

**Conditions for safe storage, including any incompatibilities**

**Storage:** Store at +4°C in the original container protected from light

**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:** None.

**Specific end use(s)** No further relevant information available.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Control parameters****Components 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 that were valid during the creation were used as basis.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:** Not required.

**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.

**Eye protection:** Not required.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Fluid

**Color:** Colorless

**Odor:** Not determined

**Odor threshold:** Not determined.

**pH-value at 20 °C (68 °F):** 6.5

**Change in condition**

**Melting point/Melting range:** 0 °C (32 °F)

**Boiling point/Boiling range:** 100 °C (212 °F)  
**Flash point:** Not applicable.  
**Flammability (solid, gaseous):** Not applicable.  
**Decomposition temperature:** Not determined.  
**Auto igniting:** Product is not selfigniting.  
**Danger of explosion:** Product does not present an explosion hazard.  
**Explosion limits:**  
**Lower:** Not determined.  
**Upper:** Not determined.  
**Vapor pressure:** Not determined.  
**Density:** Not determined.  
**Relative density** Not determined.  
**Vapor density** Not determined.  
**Evaporation rate** Not determined.  
**Solubility in / Miscibility with Water:** Fully miscible.  
**Partition coefficient (n-octanol/water):** Not determined.  
**Viscosity:**  
**Dynamic:** Not determined.  
**Kinematic:** Not determined.  
**Water:** 99.9 %  
**VOC content:** 0.00 %  
**Solids content:** 0.1 %  
**Other information** No further relevant information available

## SECTION 10 – STABILITY AND REACTIVITY

**Stability and reactivity:** Stable under normal conditions of use and storage.  
**Conditions to avoid:** N/A.  
**Hazardous polymerization:** Will not occur.  
**Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute toxicity:**  
**LD/LC50 values that are relevant for classification:** No data available

**Primary irritant effect:**  
**on the skin:** No irritant effect.  
**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### Carcinogenic categories

**IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

**NTP (National Toxicology Program)**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

## SECTION 12 – ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** Not harmful to the aquatic environment

**Persistence and degradability** Not available

**Behavior in environmental systems:**

**Bioaccumulative potential** Not known

**Mobility in soil** No further relevant information available.

**Ecotoxical effects:**

**Remark:** Not available

**Additional ecological information:**

**General notes:** Generally not hazardous for water.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 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.

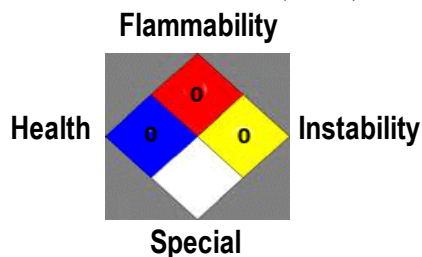
◆ This product is not classified according to the EU regulations.

## 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.):**



0 = not significant  
1 = slight  
2 = moderate

3 = high  
4 = extreme  
\* = chronic

◆ **Revisions:**

Issue Date: 25/02/2019

Last Revision Date: 14/03/2019

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.

## MSDS: NITRITE STANDARD

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

◆ **Product name:** 1 mL Nitrite standard (0.1M)

◆ **Contact:**

OZ Biosciences  
Parc Scientifique de Luminy – Zone Luminy Entreprises  
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13288 Marseille cedex 9, France  
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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:**

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

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

#### **Description:**

*The product is a mixture of unlisted nonhazardous substances.*

*The exact concentration percentages of substances may be withheld as a OZ Biosciences trade secret.*

**Dangerous components:** Void

**Additional information:** For the wording of the listed risk phrases refer to section 15.

### 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

#### **Extinguishing media**

#### **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture** None known

**Advice for firefighters** No special advice

**Protective equipment:** No special measures required.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Handling:** Protect from light exposure

**Precautions for safe handling** No special measures required.

**Information about protection against explosions and fires:** The product is not flammable.

**Conditions for safe storage, including any incompatibilities**

**Storage:** Store at +4°C in the original container protected from light

**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:** None.

**Specific end use(s)** No further relevant information available.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Control parameters**

**Components 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 that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

**Protection of hands:** Not required.

**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.

**Eye protection:** Not required.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**General Information**

**Appearance:**

**Form:** Fluid

**Color:** Colorless

**Odor:** Not determined

**Odor threshold:** Not determined.

**pH-value at 20 °C (68 °F):** 7.5

**Change in condition**

**Melting point/Melting range:** 0 °C (32 °F)

**Boiling point/Boiling range:** 100 °C (212 °F)

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Decomposition temperature:** Not determined.  
**Auto igniting:** Product is not selfigniting.  
**Danger of explosion:** Product does not present an explosion hazard.  
**Explosion limits:**  
**Lower:** Not determined.  
**Upper:** Not determined.  
**Vapor pressure:** Not determined.  
**Density:** Not determined.  
**Relative density** Not determined.  
**Vapor density** Not determined.  
**Evaporation rate** Not determined.  
**Solubility in / Miscibility with**  
**Water:** Fully miscible.  
**Partition coefficient (n-octanol/water):** Not determined.  
**Viscosity:**  
**Dynamic:** Not determined.  
**Kinematic:** Not determined.  
**Water:** 99.9 %  
**VOC content:** 0.00 %  
**Solids content:** 0.1 %  
  
**Other information** No further relevant information available

## SECTION 10 – STABILITY AND REACTIVITY

**Stability and reactivity:** Stable under normal conditions of use and storage.  
**Conditions to avoid:** N/A.  
**Hazardous polymerization:** Will not occur.  
**Hazardous decomposition products:** Not available.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

**LD/LC50 values that are relevant for classification:** No data available

#### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### Carcinogenic categories

##### IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

##### NTP (National Toxicology Program)

None of the ingredients are listed.

##### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

## SECTION 12 – ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** Not harmful to the aquatic environment

**Persistence and degradability** Not available

#### Behavior in environmental systems:

**Bioaccumulative potential** Not known

**Mobility in soil** No further relevant information available.

#### Ecotoxicological effects:

**Remark:** Not available



**Additional ecological information:****General notes:** Generally not hazardous for water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**SECTION 13 – DISPOSAL CONSIDERATIONS****Waste treatment methods****Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.**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.

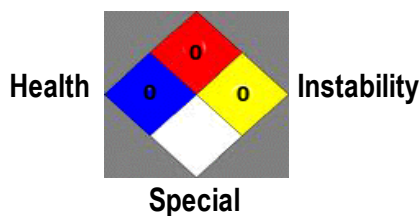
◆ This product is not classified according to the EU regulations.

**SECTION 16– OTHER INFORMATION**

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

<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  
1 = slight  
2 = moderate

3 = high  
4 = extreme  
\* = chronic

◆ **Revisions:**

Issue Date: 25/02/2019

Last Revision Date: 14/03/2019

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.