

**BAY AREA CHEMICAL CONSORTIUM  
BID FORM FOR BID NO. 04-2021  
FOR SUPPLY AND DELIVERY OF CALCIUM NITRATE**

Sealed bids must be submitted in a PDF format and bidders must enter bid prices into the electronic bid platform (Line Item page)

<https://bacwa.org/bacc/>

No later than 4:00 PM. PDT  
Thursday, April 15, 2021

Legal Name of Bidder:

Evoqua Water Technologies LLC

Business Address

2650 Tallevast Road

Sarasota, FL 34243

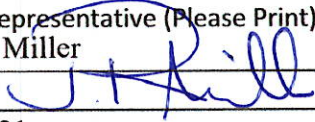
Telephone Number: 941-359-7930

Facsimile Number: 941-359-7985

Email Address: municipalservices@evoqua.com

Authorized Representative (Please Print):

Jennifer R. Miller

Signature: 

Date: 4/14/21

**I. All costs except California State sales tax for the purchase of CALCIUM NITRATE must be included in the amount shown entered into the electronic bid platform (Line Item page), including any and all mill assessments, fees, excise taxes, transportation charges, etc. Any exceptions to the bid must be noted under Specific Deviations on the Standard Agreement. Bidders shall submit bids per unit of measure as specified in the electronic bid platform (Line Item page).**

**II. Bidders must submit all of the following, attached to this Bid Form:**

- a. All requirements listed in Section 2.21 Manufacturer's Info.
- b. If applicable, the name, address, and contact information for the third party hauling company as well as an affidavit signed by the Bidder that the third party hauler can and will deliver the chemical to each and every participating BACC Agency.

**III. Bidder Obligations**

By signing this Bid Form and entering into individual purchase orders and/or purchase agreements with BACC agencies, the bidder expressly agrees to be bound by all the provisions of the bid solicitation, including Sections I-IV.

## Bioxide® UB Product Specifications

	<b>SPECIFICATIONS</b>
Description	Aqueous solution of stable, inorganic salts for biological enhancement, calcium ammonium nitrate double salt
Total N % by weight	~16
Weight/Gallon	12.6 - 12.7 lbs./gallon
Pounds of Nitrate Oxygen	4.8 pounds of nitrate-oxygen minimum (NO <sub>3</sub> -O) per gallon
pH	4 – 8
Ammoniacal Nitrogen or Ammonium as N	>4.9 % by weight as NH <sub>3</sub> -N or NH <sub>4</sub> -N
Nitrate N % by weight	>11.0
CERCLA Listing	Contains no CERCLA listed hazardous substances. BIOXIDE® is exempt from Federal DOT placard requirements.
Certifications	ISO 9001, 14001 and 45001
Equipment Requirements	Compatible with storage tanks, piping and pumping equipment made of polyethylene, PVC, FRP or stainless steel.

### BIOXIDE® ....THE NATURAL SOLUTION

BIOXIDE® is a biochemical process solution which controls odors and corrosion caused by hydrogen sulfide and other compounds in wastewater systems. It is safe to handle, and effective dosage will prevent atmospheric hydrogen sulfide from reaching toxic levels. Proper dosage of BIOXIDE treatment solution to a sludge or a wastewater stream, as determined by Evoqua Water Technologies LLC, provides for a population of beneficial bacteria which oxidize dissolved hydrogen sulfide and other reduced sulfur compounds as part of their metabolism.

By treating the hydrogen sulfide in the wastewater stream, the process prevents release of hydrogen sulfide into the air, reducing odors and corrosion.

The BIOXIDE process has proven effective in many types of wastewater facilities, in widely varying flows, and in any kind of weather. Treatment is typically dosed into a collection system upstream from the problem facility. From a few selected points, the benefits will spread throughout the collection system. The process has been documented to reduce dissolved hydrogen sulfide from over 50 ppm to < 0.1 ppm in numerous wastewater collection force mains, wet wells and gravity

interceptors. Similar results have been achieved with BIOXIDE treatment in sludge lagoons and storage tanks. Due to the biochemical nature of this process, complete sulfide removal is extremely cost effective in applications where extended detention times produce septic conditions. Regional distribution and service locations are in Temecula, CA; Wilmington, DE; Sarasota, FL; Canton, GA; Granite City, IL and Cedar Park, TX.

BIOXIDE® as used throughout this document is a registered name owned by Evoqua Water Technologies LLC. When used in an AE process U.S. Patents #7,087,172 and 7,186,341 may apply.

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Bioxide® UB

#### 1.2. Recommended use and restrictions on use

Recommended use : Odor Control  
Restrictions on use : None known

#### 1.3. Supplier

Evoqua Water Technologies  
210 Sixth Avenue Suite 3300  
Pittsburgh, PA 15222  
T 724-772-0044  
[information@evoqua.com](mailto:information@evoqua.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Acute toxicity (oral) Category 4 H302 Harmful if swallowed  
Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H302 - Harmful if swallowed  
H318 - Causes serious eye damage  
Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P330 - Rinse mouth.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Ammonium calcium nitrate double salt	(CAS-No.) 15245-12-2	45 – 70	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

# Bioxide® UB

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
Ammonium nitrate	(CAS-No.) 6484-52-2	20 – 35	Ox. Sol. 3, H272 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Serious damage to eyes.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Not determined.

#### 5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire with normal precautions from a reasonable distance.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not handle until all safety precautions have been read and understood.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel or sweep up and put in a closed container for disposal.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

# Bioxide® UB

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Bioxide® UB</b>
No additional information available.
<b>ammonium calcium nitrate double salt (15245-12-2)</b>
No additional information available.
<b>Ammonium nitrate (6484-52-2)</b>
No additional information available.
<b>Water (7732-18-5)</b>
No additional information available.

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Turbid to clear
Color	: tan
Odor	: Odorless
Odor threshold	: No data available.
pH	: 4 – 8
Melting point	: Not applicable
Freezing point	: -3°C
Boiling point	: 125°C
Flash point	: No data available.
Relative evaporation rate (butyl acetate=1)	: No data available.
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available.
Relative vapor density at 20 °C	: No data available.
Relative density	: 1.50-1.54
Solubility	: completely soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.

# Bioxide® UB

## Safety Data Sheet

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Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosion limits	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.

### 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

ATE US (oral)	401.412 mg/kg body weight
<b>Ammonium calcium nitrate double salt (15245-12-2)</b>	
LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	300 mg/kg body weight
<b>Ammonium nitrate (6484-52-2)</b>	
LD50 oral rat	2217 mg/kg
LC50 Inhalation - Rat	> 88.8 mg/l/4h
ATE US (oral)	2217 mg/kg body weight

Skin corrosion/irritation	: Not classified. pH: 4 – 8
Serious eye damage/irritation	: Causes serious eye damage. pH: 4 – 8
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Viscosity, kinematic	: No data available.

# Bioxide® UB

## Safety Data Sheet

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Symptoms/effects after eye contact : Serious damage to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Partition coefficient n-octanol/water (Log Pow)	-3.1 (at 25 °C)

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

No additional information available.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Bioxide® UB	
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### Ammonium calcium nitrate double salt (15245-12-2)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

# Bioxide® UB

## Safety Data Sheet

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### Ammonium nitrate (6484-52-2)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Ammonium nitrate(6484-52-2)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 10/30/2020

Full text of H-phrases:

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

*DISCLAIMER OF LIABILITY* The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable



# THORNTON LABORATORIES TESTING & INSPECTION SERVICES, INC.

1145 E. Cass St, Tampa, FL 33602  
Phone: 813-223-9702 Fax: 813-223-9332  
WWW.THORNTONLAB.COM

6-Apr-2021  
Page 1 of 1

Report For: Evoqua Water Technologies LLC  
2650 Tallevast Road  
Sarasota, FL 34243  
Attn: Danielle Arney

### Sample Identification:

Bioxide UB  
Stockton Terminal  
Sampled on 3/24/21

Date Received: 26-Mar-2021  
Laboratory Number: 437698-S, Revised

### CERTIFICATE OF ANALYSIS

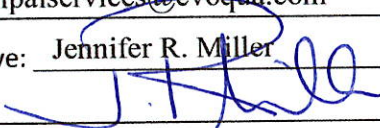
Method	Parameter	Result	Units
AFPC XI.15.A	Nitrogen, Ammoniacal (N)	4.97	%
SM 4500-NO <sub>3</sub> B	Nitrogen, Nitrates (N)	11.1	%
Calc	Nitrate Oxygen (NO <sub>3</sub> -O)	38.04	%
	Nitrate Oxygen (NO <sub>3</sub> -O)	4.84 +/- 0.02	lbs/gal.
AWWA B403-09	Water Insoluble Matter	0.007	%
EPA 150.1	pH Value	5.71	
AOAC 945.06	Specific Gravity @ (60 °F)	1.5266	
	Specific Gravity @ (68 °F)	1.5224	
ACS	Freezing Point	> -50	°F
	Nitrogen, Lbs/gal	19.7	

THORNTON LABORATORIES  
Steve Fickett, III



**BAY AREA CHEMICAL CONSORTIUM  
STANDARD AGREEMENT, PAGE 1 OF 2  
BID NO. 04-2021  
SUPPLY AND DELIVERY OF CALCIUM NITRATE**

I hereby agree to furnish CALCIUM NITRATE identified in the attached bid forms, as solicited by the Bay Area Chemical Consortium (BACC), to one or more of the participating BACC Agencies.

Company: Evoqua Water Technologies LLC  
Address: 2650 Tallevast Road  
City, State, ZIP: Sarasota, FL 34243  
Phone: 941-359-7930  
Email: municipalservices@evoqua.com  
Authorized Representative: Jennifer R. Miller  
Signature:   
Date: 4/4/21

**WE ACKNOWLEDGE RECEIVING ADDENDUM/ADDENDA NUMBER 1 THROUGH       .**

**SPECIFIC DEVIATIONS:**

This box must be checked if bidder has any proposed specific deviations. Per Section 2.12 Proposed Deviations from the Specifications by the Bidder, the absence of a proposed change in the specifications will hold the bidder strictly accountable to the specifications as described in the bid document, including any addendum.

Describe the specific deviations below. A copy of the proposed specifications must be attached to this Standard Agreement at the time of submission, with bidder's name clearly shown on each document.

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**STANDARD AGREEMENT, PAGE 2 OF 2**

**BIDDER INFORMATION**

1. Legal Name of Bidder:  
Evoqua Water Technologies LLC
  
2. Bidder's Street Address:  
2650 Tallevast Road, Sarasota, FL 34243
  
3. Mailing Address:  
Same as above
  
4. Business Telephone: 941-359-7930 Fax Number: 941-359-7985
  
5. Type of Supplier:  
 Sole Proprietor                       Partnership                       Corporation       LLC  
If Corporation, indicate State where incorporated: Delaware
  
6. Business License Number issued by the City where the Supplier's principal place of business is located.  
Number: 1012 Issuing City: Temecula
  
7. Supplier Federal Tax Identification Number: 80-0909020
  
8. Emergency Contact: Name: Rhett Ussery  
Phone Number: 916-390-8946
  
9. Order Contact: Name: Shareen Tinsman  
Address: 42257 Avenida Alvarado, Temecula CA 92590  
Phone Number: 800-566-1568 Fax Number: 951-296-6093  
Email: shareen.tinsman@evoqua.com
  
10. References:

<u>Company/Agency Name</u>	<u>Contact Name</u>	<u>Phone Number</u>
<u>1) Silicon Valley Clean Water</u>	<u>Monte Hamamoto</u>	<u>(650) 832-6266</u>
<u>2) Central Marin Sanitation Agency</u>	<u>Jason R. Dow, P.E.</u>	<u>(415) 459-1455</u>
<u>3) Sacramento Reg. County Sanitation Dist.</u>	<u>Fernando Escalante, P.E.</u>	<u>(916) 875.9173</u>
  
11. Chemical Manufacturer's name and address (if different from Bidder):  
Yara North America, 100 N. Tampa Street, Suite 3200, Tampa, FL 33602  
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