

AGREEMENT FOR THE PURCHASE OF GOODS AND SERVICES

THIS AGREEMENT FOR THE PURCHASE OF GOODS AND SERVICES ("Agreement") is made _____, 2016, between Univar USA, Inc. ("Contractor"), whose address is 8201 S. 212th Street, Kent, Washington 98032, and telephone number is 253-872-5000 and the City of Stockton, a municipal corporation ("City").

In consideration of the mutual promises set forth in this Agreement, the parties agree as follows:

1. Goods to be provided and services to be performed. Contractor shall provide the goods and perform the services as set forth on the attached Exhibit A incorporated herein by reference Contractor shall begin providing the goods/performing the services by July 1, 2016 and complete providing the goods/performing the services by June 30, 2017; provided, however, the parties may agree to change the beginning or ending date(s).

2. Compensation. For the goods and services under this Agreement, City shall pay Contractor the sum of \$ 5.79/gallon, \$0.559/dry pound for delivery of Citric Acid.

3. Method of Payment. City shall pay Contractor within 30 days from the date Contractor's invoices are approved by the City Manager. Contractor shall submit monthly invoices.

4. Maintenance. Contractor shall maintain the goods as set forth in Exhibit A at a cost as set forth in Exhibit A. Contractor shall respond to calls for required maintenance from City personnel within 24 hours of the call; required maintenance occurs when the self check system fails to perform any of its functions. If Contractor is unable to resolve routine maintenance issues by phone within 48 hours, Contractor shall provide to City Operations personnel a resolution report indicating how and when the Contractor intends to resolve the issue. Within the period of the maintenance agreement, Contractor shall implement all software and firmware upgrades to the goods identified in Exhibit A at no cost to City. If software and firmware upgrades require a hardware upgrade, Contractor shall provide the upgraded hardware at no cost to the City. City personnel shall review and approve any upgrades prior to their installation.

5. Warranty. Contractor warrants that for one year the goods installed shall be free of defects in materials and workmanship. The one-year period shall begin upon the date the City provides in writing to Contractor acceptance of the goods. The warranty under this section shall provide coverage equal to or greater than those warranties that are customary in the industry and, at a minimum, include all parts and labor,

6. Indemnification. Contractor shall indemnify, save and hold harmless from and defend the City, members of the City Council and employees, agents and volunteers, against any and all claims, costs, demands, causes of action, suits, losses, and expense, including attorneys fees, arising from or out of acts or omissions of Contractor, its officials, employees, agents or sub-contractors, in connection with the goods and services that the Contractor is to

provide/performance under this Agreement, except where caused by the active or sole negligence of City, or City's willful misconduct.

7. Insurance. During the term of this Agreement, Contractor shall maintain in full force and effect at its own cost and expense the insurance coverage set forth on the attached Exhibit B and shall otherwise comply with the provisions of Exhibit B.

8. Business License. Prior to its execution of this Agreement, Contractor shall obtain a City business license.

9. Audit. City reserves the right to periodically audit all charges for good and services provided by Contractor.

10. Ownership of Goods. All goods accepted by the City shall be the property of the City.

11. Changes to the Agreement. This Agreement may not be modified except in writing by both parties.

12. Applicable Law. This Agreement shall be governed by the laws of the State of California and venue for any action brought in state court shall be in the Superior Court, County of San Joaquin, Stockton Branch or, for actions brought in federal court, the United States District Court for the Eastern District of California, Sacramento Division.

13. Non-Assignability. Contractor shall not assign or transfer this Agreement or any interest or obligation in this Agreement without the prior written consent of the City and then only upon such terms and conditions as City may set forth in writing.

14. Notices. All notices herein required shall be in writing and shall be sent certified or registered mail, postage prepaid, addressed as follows:

To Contractor: Univar USA, Inc.
Attn: Jennifer Perras
8201 S 212th Street
Kent, WA 98032

To City: City Manager
City of Stockton
425 N. El Dorado St.
Stockton, CA 95202

15. Conformance to Applicable Laws. Contractor shall comply with all applicable Federal, State and Municipal laws, rules and ordinances. Contractor shall not discriminate in the employment of persons or in providing services under this Agreement on the basis of any legally protected classification including race, color, national origin, sex or religion of such person.

16. Miscellaneous Provisions.
a. City may terminate this Agreement at any time by mailing notice to Contractor at the address first stated above. Contractor shall be paid for that portion of goods provided / services provided when notice is received.

b. Contractor shall not assign or transfer this Agreement.

c. In the performance of this Agreement, Contractor, its employees and agents shall have the status of an independent contractor and not as an employee of the City for any purpose.

d. If either City or Contractor waives a breach of this Agreement, such waiver shall not constitute a waiver of other or succeeding breaches of this Agreement.

e. This Agreement constitutes the entire understanding of the parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

CITY OF STOCKTON

CONTRACTOR NAME

KURT O. WILSON
CITY MANAGER

By: _____
Signature

Print name

Title: _____

[If Contractor is a corporation, signatures must comply with Corporations Code §313]

ATTEST:

APPROVED AS TO FORM

BONNIE PAIGE
CITY CLERK

JOHN LUEBBERKE
CITY ATTORNEY

EXHIBIT A



UNIVAR

Univar USA Inc.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5000
F 253-572-5041
www.univarusa.com

March 31, 2016

Dublin San Ramon Services District
Regional Wastewater Treatment Facility
Attn: Louanne Ivy
7399 Johnson Dr
Pleasanton, CA 94588

RE: Bid for Citric Acid, BACC Bid No. 05-2016

To Louanne:

Univar USA Inc. is pleased to offer a price quote on your ITB due Tuesday, April 5, 2016 and has done so on the attached required paperwork.

Our contact information for all things bid and contract related, as well as the information for your local branch, is also attached.

We look forward to hearing the results of your request – we have included a self-addressed, stamped envelope for the bid tabulations.

Thank you,

Jennifer Perras
Shawnasey McCarthy

Municipal Specialists
Western Region
Univar USA Inc.
Muniteam-west@univarusa.com
www.univar.com

Please Note: Seller shall indemnify Buyer for losses to the extent caused by Seller's negligence or breach of contract. Neither party is liable for incidental or consequential damages. Seller's liability is limited to the purchase price of the goods. SELLER MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Please Note: Where applicable, any State, Federal or other appropriate taxes and/or the California Mill Assessment will appear as separate line items on any invoices from Univar. If Univar's offer (pricing) was inclusive of these charges – they will be backed out of the "product" line item and shown as their own line item(s) at the time of billing.

Please Note: Cooperative Purchasing/Contract Piggy-Back Clauses: Unless otherwise checked "yes" within the attached offer, it is Univar's standard policy NOT to agree to/participate in Cooperative Purchasing but rather to work with each individual agency and reach a pricing agreement that is based on their needs and is advantageous for both parties. Unless otherwise noted within the attached offer – pricing within is only applicable for the locations (and any potential locations) listed within these bid documents.



**UNIVAR USA INC.
AUTHORIZED BID SIGNERS**

RESOLUTION

RESOLVED, that the Corporate Secretary shall maintain a list of the agents of this Corporation who are vested with authority to execute in the Corporation's behalf formal, written bids or proposals for the sale or other disposition of products handled by the Corporation. Said list shall be as established initially by the Board of Directors and thereafter, the President, or a Vice President shall have the authority, by written directive to the Corporate Secretary, to add agents to or eliminate agents from said list, and it is further

RESOLVED, that the Corporate Secretary or any Assistant Secretary of the Corporation is authorized to certify this resolution or certify to the name or names of persons on the list maintained by the Corporate Secretary and such certificate will be conclusive evidence of the authority of such person or persons so to act.

END OF RESOLUTION

CERTIFICATION

I, the undersigned, as Corporate Secretary of Univar USA Inc. do hereby certify as follows:

1. That the above resolution was duly adopted by the Board of Directors of said Corporation at a meeting duly held on December 4, 1986, and is in full force and effect.
2. That the list of persons authorized to execute, for an on behalf of this Corporation, written bids or proposals for the sale or other disposition of products handled by this Corporation, as initially established by the Board of Directors and thereafter added to by the President, or a Vice President of this Corporation as follows:

All officers and the following:

Shawnasey McCarthy – Municipal Commercial Manager
 Kristen Bimler – Municipal Specialist
 Linda Campbell – Municipal Specialist
 Sara Cauthen – Municipal Specialist
 Roise Holiday – Municipal Specialist
 Michele Karras – Municipal Specialist
 Max Malmborg – Municipal Specialist
 Jennifer Perras – Municipal Specialist
 Shelley Stevens – Municipal Specialist
 Michelle Wick – Municipal Specialist

3. That the foregoing person is authorized to execute bids pursuant to the resolution above referred to.

Dated this 31st of March, 2016

Perry T. Kusakabe
Corporate Secretary



Univar USA Inc.
2256 Junction Ave.
San Jose, CA 95131-1216



T 408-435-8700
F 408-435-1735
800-659-5908
www.univar.com

GENERAL INFORMATION

Regular Office Hours during which orders may be placed:

Monday – Friday 7:00 am – 5:00 pm (PST)

In case of an emergency during non-business hours:

For Non-Chemical Emergencies:

After-hours emergency – 24-hour response: Will Allison - (408) 593-4460 (cell)
Brian Wills- (650) 670-7267
Tom Mendenhall- (650) 280-3726 (cell)

For Chemical Related Emergencies:

ChemTrec: (800) 424-9300

Names, telephone/FAX numbers of those responsible for taking orders and initiating delivery:

Office Phone: (800) 659-5908
Office Fax: (408) 435-1735

Customer Service-
John Dinh - Dispatcher for packaged goods
Ryan Amodeo- Plant Manager

custsvs-sanjose@univarusa.com
John.dinh@univarusa.com
Ryan.Amodeo@univarusa.com

For anything pertaining to bids:

Please send all bid packets/documents to:
(Unless otherwise specified)

Univar USA Inc.
Attn: WER Muni Team
8201 S. 212th
Kent, WA 98032-1994

Contacts: muniteam-west@univarusa.com

Jennifer Perras
Municipal Specialist
Phone: (253) 872-5040
Fax: (253) 872-5041
jennifer.perras@univarusa.com

Roise Holiday
Municipal Specialist
Phone: (253) 872-5068
Fax: (253) 872-5041
roise.holiday@univarusa.com

Michelle Wick
Municipal Specialist
Phone: (53) 872-5084
Fax: (253) 872-5041
michelle.wick@univarusa.com

Shawnasey McCarthy
Municipal Commercial Manager
Phone: (253) 872-5052
Fax: (253) 872-5041
shawnasey.mccarthy@univarusa.com

Remittance Address:

Univar USA Inc
PO BOX 740896
LOS ANGELES, CA 90074-0896

Standard Payment Terms:

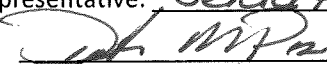
Net 30

STANDARD AGREEMENT, PAGE 1 OF 2
BAY AREA CHEMICAL CONSORTIUM
BID NO. 05-2016
SUPPLY AND DELIVERY OF CITRIC ACID

Bay Area Chemical Consortium (BACC)
 c/o Dublin San Ramon Services District
 Regional Wastewater Treatment Facility
 7399 Johnson Drive
 Pleasanton, CA 94588

Dear Sirs:

I hereby agree to furnish citric acid 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: Univar USA Inc.
 Address: 8201 S. 212th St.
 City, State, ZIP: Kent, WA 98032
 Phone: 253-872-5000
 Email: muniteam-west@univarusa.com
 Authorized Representative: Jennifer Perre
 Signature: 
 Date: 3/31/16

WE ACKNOWLEDGE RECEIVING ADDENDUM/ADDENDA NUMBER 1 THROUGH .

SPECIFIC DEVIATIONS (if applicable, attach additional sheets if necessary):

STANDARD AGREEMENT, PAGE 2 OF 2

BIDDER INFORMATION

1. Legal Name of Bidder: Univar USA Inc
2. Bidder's Street Address: 2256 Junction Ave, San Jose, CA 95131
3. Mailing Address: 8201 S. 212th St, Kent, WA 98032
4. Business Telephone: 253-872-5000 Fax Number: 253-872-5041
5. Type of Supplier:
 Sole Proprietor Partnership Corporation
 If Corporation, indicate State where incorporated: Illinois
6. Business License Number issued by the City where the Supplier's principal place of business is located.
 Number: 3641101210 Issuing City: San Jose, CA
7. Supplier Federal Tax Identification Number: 91347535
8. Emergency Contact: Name: Tom Mendenhall
 Phone Number: 650-280-3726
9. Order Contact: Name: Customer Service
 Address: 2256 Junction Ave, San Jose, CA 95131
 Phone Number: 800-655-5508 Fax Number: 408-435-1735
 Email: cust svcs - San Jose @ univarusa.com
10. References:
- | <u>Company/Agency Name</u> | <u>Contact Name</u> | <u>Phone Number</u> |
|-------------------------------|-------------------------|---------------------|
| 1) <u>Sanitation of LA</u> | <u>Karen Streeter</u> | <u>562-908-4288</u> |
| 2) <u>Tierlock Irrigation</u> | <u>Debbie Schickart</u> | <u>209-883-8403</u> |
| 3) <u>City of Spokane</u> | <u>Edith Massengale</u> | <u>509-625-4654</u> |
11. Chemical Manufacturer's name and address (if different from Bidder):
Dry Material - Jungbunzlauer, Newton Centre, MA
Solution - Univar USA, Santa Fe Springs, CA

**BAY AREA CHEMICAL CONSORTIUM
BID FORM FOR BID NO. 05-2016, PAGE 1 OF 2**

Sealed bids must be enclosed in an envelope clearly marked:

**"BID FOR CITRIC ACID
BACC BID NO. 05-2016"**

 And delivered to:

 Louanne Ivy
 Administrative Analyst – Operations
 Dublin San Ramon Services District
 Regional Wastewater Treatment Facility
 7399 Johnson Drive
 Pleasanton, CA 94588

 No later than 9:00 A.M. PDT
 Tuesday, April 5, 2016

Business Name: Univar USA Inc

 Business Address: 8201 S. 212th St.
Kent, WA 98032
Attn: WER Muni team

 Telephone Number: 253-872-5000

 Facsimile Number: 253-872-5041

 Email Address: muniteam-west@univarusa.com

 Authorized Representative (Please Print):
Jennifer Perros

 Date: 3/31/16

I. All costs except California State sales tax for the purchase of citric acid must be included in the amount shown below on this Bid Form, 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 in both \$/gallon and \$/dry lb.

BACC Agencies: North Bay Locations
 Ironhouse Sanitary District
 Unit Price for Citric Acid \$ 5.79/gallon \$.559/dry lb.

BACC Agencies: Tri-Valley Locations
 Dublin San Ramon Services District and Zone 7 Water Agency
 Unit Price for Citric Acid \$ 5.79/gallon \$.559/dry lb.

BACC Agencies: Central Valley Locations
 City of Stockton
 Unit Price for Citric Acid \$ 5.79/gallon \$.559/dry lb.

BACC Agencies: Sacramento Area Locations
 City of Yuba City
 Unit Price for Citric Acid \$ 5.79/gallon \$.559/dry lb.

**BAY AREA CHEMICAL CONSORTIUM
BID FORM FOR BID NO. 05-2016, PAGE 2 OF 2**

- II. Bidders must submit all of the following, attached to this Bid Form:**
- a.** An affidavit of compliance to the appropriate American Water Works Association (AWWA) and/or National Sanitation Foundation (NSF) standard is required for all chemicals and polymers being provided for potable water treatment. Bidders must include a statement by the chemical manufacturer, signed by an authorized representative on letterhead stationery, attesting to the affidavit's validity. In lieu of submitting an affidavit of compliance with AWWA/NSF standards and a letter attesting to the affidavit's validity, a current printout from NSF.org is acceptable.
 - b.** A representative analysis of the chemical to be supplied, as prepared by a reputable outside laboratory or Bidder's in-house laboratory if ISO certified.
 - c.** Product Bulletin and Typical Properties.
 - d.** Safety Data Sheet (SDS).
 - e.** 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.



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, March 31, 2016** at 12:15 a.m. Eastern Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: <http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=UNIVAR&ChemicalName=Citric+Acid&>

NSF/ANSI 60 Drinking Water Treatment Chemicals - Health Effects

Univar USA Inc.
17411 Northeast Union Hill Road
Redmond, WA 98052
United States
425-889-3400

Facility : Distribution Center - Redwood City, CA

Citric Acid	Product Function	Max Use
<i>Trade Designation</i> Citric Acid, 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Santa Fe Springs, CA

Citric Acid	Product Function	Max Use
<i>Trade Designation</i> Citric Acid, 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Visalia, CA

Citric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid, 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Fresno, CA

Citric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Dallas, GA

Citric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid 50%	Membrane Cleaner	NA

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Geneva, NY

Citric Acid[1] [2]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid 50%	Membrane Cleaner	NA

- [1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.
- [2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Altoona, PA

Citric Acid[1] [2]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid 50%	Membrane Cleaner	NA

- [1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.
- [2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Spartanburg, SC

Citric Acid[1] [2]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Citric Acid, 50% Solution	Membrane Cleaner	NA

- [1] This product is designed to be used off-line and flushed out prior to using the system for drinking water, following the manufacturer's use instructions.
- [2] The pH of the influent and effluent water should be monitored to ensure that all traces of the product have been removed before placing into service.

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Number of matching Manufacturers is 1
 Number of matching Products is 8
 Processing time was 0 seconds



Product specification

Citric acid 50%

Characteristics

- > Chemical name: $C_6H_8O_7 \cdot H_2O$
- > Freeze point: 16°F
- > Boiling point: 205 – 225°F
- > pH: 1 – 2

Product details

- > Citric acid 50% is used for membrane cleaning of organic fouling. This product is designed for off line membrane cleaning. Equipment manufacturer recommendations should be followed. Typical applications require draining, soaking with citric acid, draining, and rinsing (may require three or more rinses). After rinse, pH should be tested to ensure all traces of product have been removed.
- > Industrial acid chemical cleaning applications prefer citric acid 50% for its ability to sequester metal ions and dissolve oxide deposits with an easy to use and safer acid source. Solutions are acidic. Undiluted solutions can be slightly corrosive to carbon steel; inhibitors can be suggested if this is a concern.
- > Containers should be stored indoor, preferably in a cool room. Freezing is generally not a concern, unless exposed to temperatures below 16°F. If crystallization occurs, product will go back into solution with gentle heat and some mixing. Tank trucks are off loaded by air and deliver up to 4500 gallons. Unloading pressure can be up to 30 psi. Sufficient venting must be available for unloading. Packaging is available in drums, deldrums, and IBCs.
- > The following materials are considered compatible with citric acid, for linings or material of construction:
 - o Fiberglass
 - o FRP
 - o Polyethylene
 - o CPVC
 - o PVC
 - o Stainless steel
 - o Neoprene
 - o Viton®
 - o Buna
 - o Teflon®

Consultation with a qualified tank manufacturer is advised.

- > ANSI / NSF 60 certified for drinking water additive.

Sales specifications

	Typical	Minimum	Maximum
$C_6H_8O_7$ in solution	50%	–	–
Color	Clear	–	–
Pounds per gallon	10.34	–	–

Consult the MSDS for additional information.

All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar USA Inc. ("Univar") makes no representations or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar's standard Terms and Conditions, available at www.univar.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

20120821

Univar
www.univar.com/us
watertreatment@univar.com
 17425 NE Union Hill Road
 Redmond, WA 98052

CERTIFICATE OF ANALYSIS



Univar USA Inc.
 12522 Los Nietos Road
 Santa Fe Springs, CA 90670
 PH. 562-044-7244
 FAX 562-903-0056
www.univarusa.com

DATE: 5/13/2014

PRODUCT: Citric Acid, 50%, Liquid

PRODUCT GRADE: NSF

UNIVAR PRODUCT CODE: 797170

UNIVAR LOT/PJO NUMBER: SE780515

<u>TEST</u>		<u>RESULTS</u>	<u>SPECIFICATIONS</u>
Assay C ₆ H ₈ O ₇	%	49.98	49.0% - 51.0%
Color		pass	Clear, Colorless
pH		1	--

Univar USA Inc.

Julie Tweebbeeke (Signature)

Julie Tweebbeeke (Print Name)

Admin Assistant (Job Title)



Certified to
NSF/ANSI 60

Notes:

Consult the MSDS for additional information.

All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar USA Inc. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar's standard Terms and Conditions, available at www.univarusa.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

Page 1

CERTIFICATE OF ANALYSIS



Univar USA Inc.
 12522 Los Nietos Road
 Santa Fe Springs, CA 90670
 PH. 562-944-7244
 FAX 562-903-0058
www.univarusa.com

DATE: 2/15/2016

PRODUCT: Citric Acid, 50%, Liquid

PRODUCT GRADE: FCC

UNIVAR PRODUCT CODE: 797167

UNIVAR LOT/PJO NUMBER: SE026840399

<u>TEST</u>		<u>RESULTS</u>	<u>SPECIFICATIONS</u>
Assay $C_6H_8O_7$	%	49.48	49.0% - 51.0%
Color		pass	Clear, Colorless
pH		1	--

Univar USA Inc.

 (Signature)

Julie Tweebeeke (Print Name)

Traffic Coordinator (Job Title)

Notes:

This product meets FCC (Food Chemical Codex) specifications.

Consult the MSDS for additional information.

All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar USA Inc. ("Univar") makes no representation or warranty, express or implied, concerning the accuracy or sufficiency of the information. Univar is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar's standard Terms and Conditions, available at www.univarusa.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

Page 1

COMPANY IDENTITY: Univar
 PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
 REPLACES: 07/22/2013

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: CITRIC ACID, SOLUTION
 SDS NUMBER: CDS-2171
 COMPANY IDENTITY: Univar
 COMPANY ADDRESS: 17425 NE Union Hill Road
 COMPANY CITY: Redmond, WA 98052
 COMPANY PHONE: 1-425-889-3400
 EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
 CANUTEC: 1-613-996-6666 (CANADA)

SECTION 2. HAZARDS IDENTIFICATION

WARNING!



HAZARD STATEMENTS:

H100s = General, H200s = Physical, H300s = Health, H400s = Environmental

H315 Causes skin irritation.
 H320 Causes eye irritation.

PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P262 Do not get in eyes, on skin, or on clothing.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Water	7732-18-5	231-791-2	55-65
Citric Acid	77-92-9	-	45-50

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
REPLACES: 07/22/2013

SECTION 4. FIRST AID MEASURES

GENERAL ADVICE:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

EYE CONTACT:

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing is for 15 minutes. Seek immediate medical attention.

SKIN CONTACT:

If the product contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

SWALLOWING:

If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES

Isolate from strong oxidizers, extreme heat and open flame.

EXTINGUISHING MEDIA

Use appropriate extinguishing media.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield, bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
REPLACES: 07/22/2013

SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

UNUSUAL EXPLOSION AND FIRE PROCEDURES

Reacts with most metals producing hydrogen which is extremely flammable & may explode. Applying to hot surfaces requires special precautions. Closed containers may explode if exposed to extreme heat.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

PERSONAL PROTECTIVE EQUIPMENT

The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves (triple-gloves (rubber gloves and nitrile gloves, over latex gloves), goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

CONTAINMENT AND CLEAN-UP MEASURES:

Absorb spilled liquid with polypads or other suitable absorbent materials. If necessary, neutralize using suitable buffering material, (acid with soda ash or base with phosphoric acid), and test area with litmus paper to confirm neutralization. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and place all spill residue in suitable containers. dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

HANDLING

Use only with adequate ventilation. Do not get in eyes, on skin or clothing. Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

STORAGE

Isolate from strong oxidants. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage. Reacts with most metals producing hydrogen which is extremely flammable & may explode. Wear full face shield, gloves & full protective clothing when opening or handling. When empty, drain completely, replace bungs securely.

COMPANY IDENTITY: Univar
 PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
 REPLACES: 07/22/2013

SECTION 7. HANDLING AND STORAGE (CONTINUED)

NONBULK: CONTAINERS:

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

BULK CONTAINERS:

All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

TANK CAR SHIPMENTS:

Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Water	7732-18-5	231-791-2	None Known	None Known
Citric Acid	77-92-9	-	None Known	None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

LOCAL EXHAUST: Necessary
 SPECIAL: None
 MECHANICAL (GENERAL): Acceptable
 OTHER: None
 Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.
 Wash at end of each workshift & before eating, smoking or using the toilet.
 Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

COMPANY IDENTITY: Univar
 PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
 REPLACES: 07/22/2013

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	None
ODOR THRESHOLD:	Not Available
pH (Neutrality):	< 2.0
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	100 100 100* C/212 212 212* F(*=End Point)
FLASH POINT (TEST METHOD):	Not Applicable
EVAPORATION RATE (n-BUTYL ACETATE=1):	Not Applicable
FLAMMABILITY CLASSIFICATION:	Non-Combustible
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	Not Applicable
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	17.5
VAPOR DENSITY (air=1):	0.670
GRAVITY @ 68/68 F / 20/20 C:	
SPECIFIC GRAVITY (Water=1):	1.240
POUNDS/GALLON:	10.329
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	Not Applicable
DECOMPOSITION TEMPERATURE:	Not Available
VOCs (>0.044 Lbs/Sq In) :	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC'S (TVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0

* Using CARB (California Air Resources Board Rules).

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable but Reacts with most metals producing hydrogen which is extremely flammable & may explode.

CONDITIONS TO AVOID

Isolate from extreme heat and open flame

MATERIALS TO AVOID

Isolate from alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Oxides from heating.

HAZARDOUS POLYMERIZATION

Will not occur.

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
REPLACES: 07/22/2013

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE HAZARDS

EYE & SKIN CONTACT:

Severe irritation to skin, defatting.
Severe irritation to eyes, redness, tearing, blurred vision.
Wash thoroughly after handling.

INHALATION:

May be irritating to the respiratory system.

SWALLOWING:

May be irritating to the digestive system.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED:

None Known.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a sensitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: This product is not reported to produce embryotoxic effects in humans.

TERATOGENICITY: This product is not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (such as: within the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

MAMMALIAN TOXICITY INFORMATION

No mammalian information is available on this product.

COMPANY IDENTITY: Univar
 PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
 REPLACES: 07/22/2013

SECTION 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

EFFECT OF MATERIAL ON AQUATIC LIFE:

No aquatic environmental information is available on this product.

MOBILITY IN SOIL

Mobility of this material has not been determined.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION

Bioaccumulation of this product has not been determined.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D002

SECTION 14. TRANSPORT INFORMATION

DOT/TDG SHIP NAME: Not Regulated
 DRUM LABEL: None
 IATA / ICAO: Not Regulated
 IMO / IMDG: Not Regulated
 EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health



All components of this product are on the TSCA list.
 This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

STATE REGULATIONS:

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):
 This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:
 Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS)G
 Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC),
 Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: CITRIC ACID, SOLUTION

SDS DATE: 12/05/2013
REPLACES: 07/22/2013

SECTION 15. REGULATORY INFORMATION (CONTINUED)

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.
E: Corrosive Material.

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0
(Personal Protection Rating to be supplied by user based on use conditions.)
This information is intended solely for the use of individuals
trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Thursday, April 09, 2015** at 12:15 a.m. Eastern Time. Please contact NSF International to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: <http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Jungbunz&ChemicalName=Citric+Acid&>

NSF/ANSI 60 Drinking Water Treatment Chemicals - Health Effects

Jungbunzlauer Inc.

7 Wells Avenue Suite 15
Newton Centre, MH 02459
United States

617-969-0900

Visit this company's website

(<http://www.jungbunzlauer.com>)

Facility : Port Colborne, Ontario, Canada

Citric Acid

Trade Designation

Citric Acid Anhydrous

Product Function

pH Adjustment

Max Use

100mg/L

Jungbunzlauer Inc.
 7 Wells Avenue
 Newton Centre, MA 02459
 USA
 Phone +1-617-969 0900
 Fax +1-617-964 2921
 www.jungbunzlauer.com

Product Specification

Jungbunzlauer

Citric Acid Monohydrate

Food & Pharmaceutical Grade (conforms to Ph. Eur. / USP / FCC / EC)

Product name	Citric acid monohydrate	$C_6H_8O_7 \cdot H_2O$
EC No.	201-069-1	
CAS No.	5949-29-1	
E-No.	E 330	
Characteristics	Colourless crystals or a white, crystalline powder; effloresces in dry air, very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether	

Odour	typical, practically odourless
Identification	conforms
Appearance of solution	clear and colourless
Clarity of solution (USP)	conforms
Colour of solution (USP)	conforms
Readily carbonisable substances (Ph. Eur. / EC / JP)	conforms
Readily carbonisable substances (USP / FCC)	conforms
Oxalic acid / oxalate	< 100 mg/kg
Sulphate	< 100 mg/kg
Heavy metals	< 5 mg/kg
Arsenic	< 1 mg/kg
Lead	< 0.5 mg/kg
Mercury	< 0.5 mg/kg
Calcium	< 30 mg/kg
Iron	< 3 mg/kg
Chloride	< 5 mg/kg
Residue on ignition (USP / FCC)	< 0.05 %
Sulphated ash	< 0.05 %
Water	7.5 - 8.8 %
Assay	99.7 - 100.3 %

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopeia (USP), the Food Chemical Codex (FCC) and of Commission Directive 2008/84/EC. All analytical methods are in accordance with the latest requirements of the Ph. Eur., the USP, the FCC or equivalent methods. Test methods are available on request.

Jungbunzlauer Inc.
 7 Wells Avenue
 Newton Centre, MA 02459
 USA
 Tel: +1-617-969 0900
 www.jungbunzlauer.com

241912
 UNIVAR - City of Commerce
 2600 S. Garfield Ave
 City of Commerce CA 90040

Jungbunzlauer

Certificate of Analysis

Creation date 03/24/2016	Order-no. / Date LA-843070 / 03/08/2016	Deliverynote-no. / Date 80563058 000010 / 03/28/2016		
Our reference / Date 527605 000010 / 03/09/2016	Client number 203655			
Material / Product / Description 106842 / / Citric Acid Anhydrous fine F6000 in 50 lbs bags				
Delivery plant Jungbunzlauer Canada Inc. 1555 Elm Street L3K 5V5 Port Colborne				
Batch 6048305	Quantity 42,000 LB	Date of production 03/14/2016	Date of expiry 03.2019	Origin Port Colborne, Canada

Parameter	Unit	Specification	Value
Characteristics			conforms
colourless crystals or a white, crystalline powder, very soluble in water, freely soluble in ethanol (96%), sparingly soluble in ether, has a strong acid taste			
Appearance of solution			conforms
Odour			conforms
typical, practically odourless			
Identification			conforms
Clarity of solution			conforms*
Colour of solution			conforms*
Assay	%	99.70 - 100.30	99.84
Water	%	<= 0.50	0.07
Readily carbonisable substances			conforms*
Calcium	mg/kg	<= 30	conforms*
Heavy metals	mg/kg	<= 5	conforms*
Iron	mg/kg	<= 3	conforms*
Arsenic	mg/kg	<= 1	conforms*
Lead	mg/kg	<= 0.5	conforms*
Mercury	mg/kg	<= 0.5	conforms*
Chloride	mg/kg	<= 5	conforms*
Oxalic acid / oxalate	mg/kg	<= 100	conforms*
Sulphate (< 100 mg/kg)			conforms*
Residue on ignition	%	<= 0.05	conforms*
Sulphated ash	%	<= 0.05	conforms*
Particles > Mesh 25 (0.71mm)	%	- 10.00	conforms*
Particles > 0.63 mm	%	0.00 - 10.00	4.24
Particles < 0.20 mm	%	0.00 - 10.00	3.36
Particles < Mesh 100 (0,150mm)	%	0.00 - 10.00	conforms*

*) analysis is confirmed based on In-Process-Control or by random testing.

We herewith confirm that this product meets the requirements of the latest edition of the European Pharmacopoeia (Ph. Eur.), the United States Pharmacopoeia (USP), the Food Chemical Codex (FCC) and of Commission Regulation (EU) No. 231/2012. All analytical methods are in accordance with

Remit USD funds to:
 Jungbunzlauer Inc
 P. O. Box 845899
 Boston, MA 02284-5899

Remit ACH:
 Jungbunzlauer Inc
 Acct#1133826595
 Citizens Bank
 ABA #211070175

Remit Wire:
 Jungbunzlauer Inc
 Acct#1133826595
 Citizens Bank
 ABA#011500120
 SWIFT CODE CTZIUS33

Jungbunzlauer Inc.
7 Wells Avenue
Newton Centre, MA 02459
USA
Tel: +1-617-969 0900
www.jungbunzlauer.com

UNIVAR - City of Commerce
2600 S. Garfield Ave
City of Commerce CA 90040

Page	Delivery note-no./ Date
2	80563058 000010/03/28/2016

the latest requirements of the Ph. Eur., the USP, the FCC or equivalent methods. Test methods are available on request.

QUALITY ASSURANCE MANAGER
William Jamieson


This computer generated certificate is valid without signature.

Remit USD funds to:
Jungbunzlauer Inc
P. O. Box 845899
Boston, MA 02284-5899

Remit ACH:
Jungbunzlauer Inc
Acct# 1133826595
Citizens Bank
ABA #211070175

Remit Wire:
Jungbunzlauer Inc
Acct# 1133826595
Citizens Bank
ABA#011500120
SWIFT CODE CTZIUS33

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015
Version C			
1. Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier			
Trade name	:	Citric acid anhydrous	
Substance name	:	Citric acid anhydrous	
Molecular formula	:	C6-H8-O7	
Chemical identity	:	2-hydroxypropane-1,2,3-tricarboxylic acid anhydrous	
CAS-No.	:	77-92-9	
EC-No.	:	201-069-1	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Use of the Substance/Mixture	:	Food/ feedstuff additives, Cosmetic additive, Medical aids, Industrial use	
1.3 Details of the supplier of the safety data sheet			
Company	:	Jungbunzlauer Canada Inc. 1555 Elm Street Port Colborne, Ontario L3K 5V5 Canada www.jungbunzlauer.com	
Telephone	:	+1 905 835-5444	
Telefax	:	+1 905 835-0061	
E-mail address	:	msds@jungbunzlauer.com	
1.4 Emergency telephone number			
Telephone	:	CANUTEC +1 613 996-6666 CHEMTREC +1 800 424-9300	
2. Hazards identification			
2.1 Classification of the substance or mixture			
Classification (REGULATION (EC) No 1272/2008)			
Eye Irritation, Category 2		H319: Causes serious eye irritation.	
Classification (67/548/EEC, 1999/45/EC)			
Irritant		R36: Irritating to eyes.	
17/10			

SAFETY DATA SHEET		Jungbunzlauer							
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015						
Version C									
2.2 Label elements									
Labelling (REGULATION (EC) No 1272/2008)									
Hazard pictograms	:								
Signal word	:	Warning							
Hazard statements	:	H319	Causes serious eye irritation.						
Precautionary statements	:	Prevention: P264 P280	Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.						
		Response: P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.						
		P337 + P313	If eye irritation persists: Get medical advice/ attention.						
2.3 Other hazards									
3. Composition/information on ingredients									
3.1 Substances									
<table border="1"> <thead> <tr> <th>Substance name</th> <th>CAS-No.</th> <th>Concentration [%]</th> </tr> </thead> <tbody> <tr> <td>Citric acid anhydrous</td> <td>77-92-9</td> <td>100</td> </tr> </tbody> </table>				Substance name	CAS-No.	Concentration [%]	Citric acid anhydrous	77-92-9	100
Substance name	CAS-No.	Concentration [%]							
Citric acid anhydrous	77-92-9	100							
3.2 Mixtures									
4. First aid measures									
4.1 Description of first aid measures									
General advice	:	Get medical advice/ attention if you feel unwell. Show this safety data sheet to the doctor in attendance.							
If inhaled	:	If breathed in, move person into fresh air.							
In case of skin contact	:	Immediately flush skin with large amounts of water.							
In case of eye contact	:	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids.							
If swallowed	:	Drink plenty of water. If swallowed, DO NOT induce vomiting.							
2/10									

SAFETY DATA SHEET

Jungbunzlauer**Citric acid anhydrous**

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures**5.1 Extinguishing media**Suitable extinguishing media : Water spray
Dry powder
Foam
Carbon dioxide (CO₂)**5.2 Special hazards arising from the substance or mixture**Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.**5.3 Advice for firefighters**Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.
Use personal protective equipment.Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation, especially in confined areas.**6.2 Environmental precautions**Environmental precautions : Prevent further leakage or spillage if safe to do so.
No special environmental precautions required.**6.3 Methods and materials for containment and cleaning up**Methods for cleaning up : Use mechanical handling equipment.
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.

3/10

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Version C	Revision Date 26.06.2015
			Print Date 26.06.2015
6.4 Reference to other sections			
No conditions to be specially mentioned.			
7. Handling and storage			
7.1 Precautions for safe handling			
Advice on safe handling	:	Avoid creating dust. Do not breathe dust. Avoid contact with skin and eyes.	
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Dust explosion class	:	St1	
7.2 Conditions for safe storage, including any incompatibilities			
Requirements for storage areas and containers	:	Keep in an area equipped with acid resistant flooring. Keep container tightly closed in a dry and well-ventilated place.	
Further information on storage conditions	:	Do not store at temperatures above 30 °C / 86 °F.	
Advice on common storage	:	Incompatible with strong bases and oxidizing agents.	
Other data	:	No decomposition if stored and applied as directed.	
7.3 Specific end uses			
8. Exposure controls/personal protection			
8.1 Control parameters			
Contains no substances with occupational exposure limit values.			
PNEC	:	Water Value: 440 mg/l	
PNEC	:	Fresh water sediment Value: 34,6 mg/kg	
PNEC	:	Marine sediment Value: 3,46 mg/kg	
PNEC	:	Soil Value: 33,1 mg/kg	
8.2 Exposure controls			
Engineering measures			
Provide adequate ventilation.			
4/10			

SAFETY DATA SHEET

Jungbunzlauer**Citric acid anhydrous**

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

Personal protective equipment

- Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter.
Half mask with a particle filter P2 (EN 143).
- Hand protection** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Eye protection** : Safety glasses
- Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Do not breathe dust.
Avoid contact with skin, eyes and clothing.

Environmental exposure controls

- General advice** : Prevent further leakage or spillage if safe to do so.
No special environmental precautions required.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance** : crystalline
- Colour** : white
- Odour** : odourless
- Flash point** : not applicable
- Flammability (solid, gas)** : does not ignite
- Oxidizing properties** : No oxidising effect.
- Molecular Weight** : 192,13 g/mol
- pH** : 1,8
at 5 %
25 °C
- Melting point/range** : ca. 153 °C
- Density** : 1,665 g/cm³
at 20 °C

5/10

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015
Version C			
Water solubility	: ca. 800 g/l at 20 °C		
Partition coefficient: n- octanol/water	: log Pow: -1,72 log Pow: -1,8 - -0,2 Calculation		
9.2 Other information			
10. Stability and reactivity			
10.1 Reactivity			
No decomposition if stored and applied as directed.			
10.2 Chemical stability			
Stable under normal conditions.			
10.3 Possibility of hazardous reactions			
Hazardous reactions	: None known.		
10.4 Conditions to avoid			
Conditions to avoid	: Avoid dust formation.		
10.5 Incompatible materials			
Materials to avoid	: Strong bases Oxidizing agents		
10.6 Hazardous decomposition products			
Hazardous decomposition products	: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.		
11. Toxicological information			
11.1 Information on toxicological effects			
Acute toxicity			
Acute oral toxicity Citric acid anhydrous	: LD50 Oral: 5.400 mg/kg Species: mouse Method: OECD Test Guideline 401		
	: LD50 Oral: 11.700 mg/kg Species: rat Method: OECD Test Guideline 401		
6 / 10			

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015
Version C			
Acute dermal toxicity			
Citric acid anhydrous	:	LD50 Dermal: > 2.000 mg/kg	
		Species: rat	
Acute toxicity (other routes of administration)			
Citric acid anhydrous	:	LD50: 725 mg/kg	
		Application Route: i.p.	
		Species: rat	
		LD50: 940 mg/kg	
		Application Route: i.p.	
		Species: mouse	
Skin corrosion/irritation			
Skin Irritation			
Citric acid anhydrous	:	Species: rabbit	
		Result: No skin irritation	
		May cause skin irritation in susceptible persons.	
Serious eye damage/eye Irritation			
Eye Irritation			
Citric acid anhydrous	:	Species: rabbit	
		Result: Irritating to eyes.	
Respiratory or skin sensitization			
Sensitisation			
Citric acid anhydrous	:	Maximisation Test	
		Species: guinea pig	
		Result: Does not cause skin sensitization.	
		Method: OECD Test Guideline 406	
Germ cell mutagenicity			
Assessment			
Citric acid anhydrous	:	In vivo tests did not show mutagenic effects	
Carcinogenicity			
Assessment			
Citric acid anhydrous	:	Did not show carcinogenic or teratogenic effects in animal experiments.	
Reproductive toxicity			
Assessment			
Citric acid anhydrous	:	No toxicity to reproduction	
Target Organ Systemic Toxicant - Repeated exposure			
7/10			

SAFETY DATA SHEET

Jungbunzlauer**Citric acid anhydrous**

Version C

Revision Date 26.06.2015

Print Date 26.06.2015

12. Ecological information**12.1 Toxicity**

Toxicity to fish

Citric acid anhydrous : LC50: 440 mg/l
 Exposure time: 48 h
 Species: *Leuciscus idus* (Golden orfe)
 static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates.

Citric acid anhydrous : LC50: 1.535 mg/l
 Exposure time: 24 h
 Species: *Daphnia magna* (Water flea)
 static test

Toxicity to algae

Citric acid anhydrous : 425 μ g/l
 Exposure time: 168 h
 Species: *Scenedesmus quadricauda* (Green algae)
 static test

Toxicity to bacteria

Citric acid anhydrous : > 10.000 mg/l
 Exposure time: 16 h
 Species: *Pseudomonas putida*

12.2 Persistence and degradability

Biodegradability

Citric acid anhydrous : 97 %
 Testing period: 28 d
 Method: OECD Test Guideline 301B
 Readily biodegradable.

100 %

Testing period: 19 d
 Method: OECD Test Guideline 301E
 Readily biodegradable.

Biochemical Oxygen Demand (BOD)

Citric acid anhydrous : 526 mg/g

Chemical Oxygen Demand (COD)

Citric acid anhydrous : 728 mg/g

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015
Version C			
12.3 Bioaccumulative potential			
Bioaccumulation Citric acid anhydrous	:	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.	
12.4 Mobility in soil			
12.5 Results of PBT and vPvB assessment			
Citric acid anhydrous	:	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	
12.6 Other adverse effects			
13. Disposal considerations			
13.1 Waste treatment methods			
Product	:	Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.	
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.	
14. Transport information			
ADR Not dangerous goods			
DOT Not a Hazardous Material			
TDG Not dangerous goods			
IATA Not dangerous goods			
IMDG Not dangerous goods			
RID Not dangerous goods			
9/10			

SAFETY DATA SHEET		Jungbunzlauer	
Citric acid anhydrous		Revision Date 26.06.2015	Print Date 26.06.2015
Version C			
15. Regulatory Information			
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture			
Major Accident Hazard Legislation	: 96/82/EC	Update: 2003	Directive 96/82/EC does not apply
Notification status			
CERCLA	: Not considered hazardous		
SARA Title III	: Not considered hazardous		
WHMIS	: Class E		
TSCA	: On TSCA Inventory		
EINECS	: On the inventory, or in compliance with the inventory		
AICS	: On the inventory, or in compliance with the inventory		
DSL	: All components of this product are on the Canadian DSL list.		
ENCS	: On the inventory, or in compliance with the inventory		
KECI	: On the inventory, or in compliance with the inventory		
PICCS	: On the inventory, or in compliance with the inventory		
IECSC	: On the inventory, or in compliance with the inventory		
NZIoC	: On the inventory, or in compliance with the inventory		
15.2 Chemical Safety Assessment			
16. Other information			
HMIS* Rating Health = 1, Fire = 0, Reactivity = 0 0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe *Hazardous Materials Identification System of the National Paint and Coating Association.			
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.			
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.			
107.10			

Univar USA Inc.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5000
F 253-572-5041
www.univarusa.com



REFERENCES

1. County Sanitation Districts of Los Angeles County
PO Box 7998
Whittier, CA 90607-4998

Contact: Karen Streeter, Buyer
Phone: (562) 908-4288

For Supply and Delivery of Bulk Sulfuric Acid

2. County Sanitation Districts of Los Angeles County
PO Box 7998
Whittier, CA 90607-4998

Contact: Cheryl Shea, Buyer
Phone: (562) 908-4288

For Supply and Delivery of Bulk Sodium Hydroxide (Caustic Soda) 50%

3. Turlock Irrigation
Walnut Energy Center
600 Washington Rd.
Turlock, CA 95380

Contact: Debbie Schickert- Contract Specialist
Phone: 209-883-8403

For Supply and Delivery of Caustic Soda 50%

Univar USA Inc.
8201 S. 212th
Kent, WA 98032-1994
USA

T 253-872-5000
F 253-572-5041
www.univarusa.com



REFERENCES

1. City of Sunnyvale-
Water Pollution Control
1444 Borregas Ave
Sunnyvale, CA 94089

Contact: Dreama Howard, Buyer
Phone: (408) 730-7396

For Supply and Delivery of Sodium Bisulfite

2. County Sanitation Districts of Los Angeles County
PO Box 7998
Whittier, CA 90607-4998

Contact: Cheryl Shea, Buyer
Phone: (562) 908-4288

For Supply and Delivery of Bulk Sodium Bisulfite

3. Pima County -
Tres Rios
7101 N Casa Grande Hwy
Tucson, AZ 85701

Contact: Hazel Houston, Procurement
Phone: 520-791-6507

For Supply and Delivery of Sodium Bisulfite



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
02/24/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services Central, Inc. Philadelphia PA office One Liberty Place 1650 Market Street Suite 1000 Philadelphia PA 19103 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURED Univar Inc. 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Illinois Union Insurance Company		27960
	INSURER B: National Union Fire Ins Co of Pittsburgh		19445
	INSURER C: New Hampshire Ins Co		23841
	INSURER D:		
	INSURER E:		

Holder Identifier :

COVERAGES **CERTIFICATE NUMBER: 570061257189** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> SIR: \$2,000,000 GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			GL2802979 SIR applies per policy terms & conditions	03/01/2015	06/01/2016	EACH OCCURRENCE \$3,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$300,000 MED EXP (Any one person) Excluded PERSONAL & ADV INJURY \$3,000,000 GENERAL AGGREGATE \$3,000,000 PRODUCTS - COMP/OP AGG \$3,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			CA 4806890 Truckers Liability (AOS) CA 4806891 Truckers Liability (MA) CA 4806892 Truckers Liability (VA)	03/01/2015	06/01/2016	COMBINED SINGLE LIMIT (Ea accident) \$5,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION			XCEG27380566002 SIR applies per policy terms & conditions	03/01/2015	06/01/2016	EACH OCCURRENCE \$4,000,000 AGGREGATE \$4,000,000
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	WC021569602 AOS XWC0898944 CA, OH, OR & WA SIR applies per policy terms & conditions	03/01/2016	06/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000

Certificate No : 570061257189

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Evidence of Insurance.

CERTIFICATE HOLDER

CANCELLATION

Univar Inc.
3075 Highland Parkway, suite 200
Downers Grove IL 60515 USA

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Central, Inc.

©1988-2014 ACORD CORPORATION. All rights reserved.

AGENCY CUSTOMER ID: 570000014538

LOC #:



ADDITIONAL REMARKS SCHEDULE

Page _ of _

AGENCY Aon Risk Services Central, Inc.		NAMED INSURED Univar Inc.	
POLICY NUMBER See Certificate Number: 570061257189			
CARRIER See Certificate Number: 570061257189	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance**

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	AUTOMOBILE LIABILITY							
B				CA 4806893 Commercial Auto (AOS)	03/01/2015	06/01/2016	Combined Single Limi	\$5,000,000
B				CA 4806894 Commercial Auto (MA)	03/01/2015	06/01/2016		
B				CA 4806895 Commercial Auto (VA)	03/01/2015	06/01/2016		
	WORKERS COMPENSATION							
C		N/A		WC021569600 MA, ND, WI, WY	03/01/2016	06/01/2016		
C		N/A		WC021569597 FL	03/01/2016	06/01/2016		
C		N/A		WC021569599 IL, KY, NC, NH, UT	03/01/2016	06/01/2016		
C		N/A		WC021569601 AK, AZ, GA	03/01/2016	06/01/2016		
C		N/A		WC021569598 NJ, PA	03/01/2016	06/01/2016		

EXHIBIT B
Insurance Requirements
(Citric Acid - Chemical Vendor)

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Contractor, their agents, representatives, employees or subcontractors.

MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than **\$1,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability (AL):** ISO Form Number CA 00 01 covering any auto (Code 1) with combined single limits of liability of no less than **\$1,000,000** per accident for bodily injury and property damage, including **MCS90** endorsement form.
3. **Workers' Compensation:** as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Environmental Impairment/Contractors' Pollution Legal Liability** with limits no less than **\$1,000,000** per occurrence or claim, to include liability for Groundwater contamination, Explosion, Sudden and Accidental and Environmental cleanup, etc.

If the contractor maintains higher limits than the minimums shown above, the City of Stockton requires and shall be entitled to coverage for the higher limits maintained by the contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City of Stockton.

Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

- ***Additional Insured Status***
The *City of Stockton, its Mayor, Council, officers, representatives, agents, employees and volunteers* are to be covered as additional insureds on the CGL and AL policy with respect to liability arising out of work or operations performed

by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (**at least as broad as** ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used).

- **Primary Coverage**

For any claims related to this contract, the Contractor's insurance coverage shall be primary insurance as respects the *City of Stockton, its Mayor, Council, officers, representatives, agents, employees and volunteers*. Any insurance or self-insurance maintained by the *City of Stockton, its Mayor, Council, officers, representatives, agents, employees and volunteers* shall be excess of the Contractor's insurance and shall not contribute with it. The City of Stockton does not accept primary endorsements limiting the Contractor's insurance coverage to sole negligence.

- **Notice of Cancellation**

Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the City of Stockton.

- **Waiver of Subrogation**

Contractor hereby grants to the City of Stockton a waiver of any right to subrogation which any insurer of said Contractor may acquire against the City of Stockton by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City of Stockton has received a waiver of subrogation endorsement from the insurer.

- **Deductibles and Self-Insured Retentions**

Any deductibles or self-insured retentions must be declared to and approved by the City of Stockton Risk Services. The City of Stockton may require the Contractor to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

- **Acceptability of Insurers**

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII if admitted to do business in the State of California; If not admitted to do business in the State of California, insurance is to be placed with insurers with a current A.M. Best's rating of no less than A+:X.

- **Claims Made Policies**

If any of the required policies provide claims-made coverage:

- The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
- If Claims Made policy form is used, a three (3) year discovery and reporting tail period of coverage is required after completion of work.
- **Verification of Coverage**
Contractor shall furnish the City of Stockton with original certificates and amendatory endorsements required by this clause. All certificates and endorsements are to be received and approved by the City of Stockton Risk Services before work commences. Failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The City of Stockton reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time, for any reason or no reason.
- **Special Risks or Circumstances**
The City of Stockton reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other circumstances.
- **Certificate holder address**
Proper address for mailing certificates, endorsements and notices shall be:
 - City of Stockton
 - Attention: Risk Services
 - 425 N. El Dorado Street
 - Stockton, CA 95202

City of Stockton Risk Services Phone: 209-937-5037
City of Stockton Risk Services Fax: 209-937-8558

- **Maintenance of Insurance**
If at any time during the life of the Contract or any extension, the Contractor fails to maintain the required insurance in full force and effect, all work under the Contract shall be discontinued immediately. Any failure to maintain the required insurance shall be sufficient cause for the CITY to terminate this Contract.
- **Subcontractors**
If the Contractor should subcontract all or any portion of the work to be performed in this contract, the Contractor shall cover the sub-contractor, and/or require each sub-contractor to adhere to all subparagraphs of these Insurance Requirements section. Similarly, any cancellation, lapse, reduction or change of sub-contractor's insurance shall have the same impact as described above.